

## Painted Houses on Springdale Road

<b>Address</b>	<b>Year Built</b>	<b>Historic (Pre-1946)</b>	<b>Atlanta or DeKalb Co</b>
826 Springdale	1915	Yes	Atlanta
970 Springdale	1940	Yes	DeKalb
1040 Springdale	1915	Yes	DeKalb
1122 Springdale	1929	Yes	DeKalb
1140 Springdale	1925	Yes	DeKalb
1195 Springdale	1929	Yes	DeKalb
1354 Springdale	1929	Yes	DeKalb
1155 Springdale	1928	Yes	DeKalb
1359 Springdale	1926	Yes	DeKalb
1365 Springdale	1925	Yes	DeKalb
1360 Springdale	1948	No	DeKalb









- 1337 Emory



- 1534 Emory



- Emory Brick



- Emory Road





- Move Emory Brick



- Move Emory Painted Brick



- Emory Tudor Revival



- Harvard Brick



Harvard Road



- Harvard Ranch



· 2-story on Harvard

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MEETING OF THE HISTORIC PRESERVATION

COMMISSION FOR DEKALB COUNTY  
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MONDAY, OCTOBER 16, 2017 - 7:00 P.M.

DECATUR, GEORGIA 30030

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The transcript is an excerpt of the



proceedings before the HISTORIC PRESERVATION

COMMISSION FOR DEKALB COUNTY and it's Committee

members, reported by Barbara J. Jackson,

Certified Court Reporter, on the 16th day of

October, 2017, commencing at approximately 7:00

p.m., at 1300 Commerce Drive, Decatur, Georgia

30030.

1        A P P E A R A N C E S

2

BOARD MEMBERS:

3

MR. W. WRIGHT DEMPSEY, CHAIRMAN

4 MR. JON HART

MS. COURTNEY LANKFORD

5 MS. AMBER RHEA

MS. DEB WATTS

6

7 APPEARANCE FOR:

8 ALLISON BLALOCK: LINDA I. DUNLAVY, ESQ.

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1 PROCEEDINGS

2 9:31 p.m.

3 MS. AMBER RHEA: I would like to amend my

4 motion -- or should I do retract and make a new

5 motion? Does it matter?

6 MR. WRIGHT DEMPSEY: I would withdraw the  
7 motion.

8 MS. AMBER RHEA: Okay. I would like to  
9 withdraw my motion to deny. And I would like to  
10 make a new motion.

11 MR. WRIGHT DEMPSEY: Do you want somebody  
12 else to make a motion?

13 MS. AMBER RHEA: No. I'll make a motion --

14 MR. WRIGHT DEMPSEY: Okay, okay.

15 MR. JON HART: Could I make a suggestion?

16 MR. WRIGHT DEMPSEY: Yeah.

17 MR. JON HART: Could we take a straw poll  
18 based on what we think Amber is about to say and

19 just see where when we are. Because if we go  
20 through this whole thing and she's the only one  
21 that says yes to it, because she can't even get a  
22 second.

23 MS. DEB WATTS: I'll second it.

24 MR. WRIGHT DEMPSEY: I'll second.

25 MR. JON HART: Okay. Okay.

4

1 MR. WRIGHT DEMPSEY: Yeah.

2 MR. JON HART: That was the straw poll.

3 MS. AMBER RHEA: Okay.

4 MR. WRIGHT DEMPSEY: Yeah. Very good one,

5 yeah.

6 MS. AMBER RHEA: All right. So I guess it

7 would be an approval of modifications or with

8 conditions?

9 MR. WRIGHT DEMPSEY: Yeah.

10 MS. AMBER RHEA: Okay. I move to --

11 MS. COURTNEY LANKFORD: No conditions.

12 MR. WRIGHT DEMPSEY: Well, not conditions.

13 MS. DEB WATTS: Maybe a caveat, or what do

14 you call that?

15 MS. COURTNEY LANKFORD: It's just part of

16 your motion, it's the reason for why you're

17 making the motion.

18 MS. AMBER RHEA: Okay.

19 MS. DEB WATTS: For the record.

20 MS. AMBER RHEA: Okay. I move to approve

21 the application at 1351 Springdale Road. And on

22 the record, the reasons for the approval are as

23 follows: The Applicant was unaware that they

24 were in an historic district --

25 MS. DEB WATTS: -- and did not get the

5

1 required documents at closing.

2 MS. AMBER RHEA: -- and did not receive the

3 required documents at closing from their realtor.

4 Also, the application did not require a

5 building permit, so there was nothing to trigger

6 them being told they needed a CoA. Also --

7 MS. DEB WATTS: Are you gonna say the paint

8 guideline is ambiguous and the --

9 MS. AMBER RHEA: You're giving me a look,

10 Courtney. I'm just trying to say as much as

11 possible to make it is as, like, restrictive and

12 specific as possible. But if you think I should

13 stop there....

14 MR. JON HART: Painted houses adjacent on

15 both sides?

16 MS. AMBER RHEA: That's what I'm saying.

17 MR. WRIGHT DEMPSEY: Yeah.

18 MS. AMBER RHEA: Also, in the --



19 MS. COURTNEY LANKFORD: I think her wording

20 was better because it was more vague and you

21 could use it to apply --where if you say just

22 because you didn't know and just because it

23 didn't require a building permit that could be a

24 lot of things.

25 MS. AMBER RHEA: No. That's why I'm about

6

1 to keep going.

2 MS. COURTNEY LANKFORD: Okay.

3 MS. AMBER RHEA: Also, in the immediate area

4 of influence there are many painted houses,

5 historic painted houses --

6 MS. DEB WATTS: And maybe there's, in there,  
7 you could also add, there's, maybe, confusion in  
8 the guidelines and the color --

9 MS. AMBER RHEA: And also, the Guideline  
10 6.1.1 may be ambiguous in it's wording and --

11 MS. DEB WATTS: Or it's not joined with the  
12 "Do Not Paint" section.

13 MS. AMBER RHEA: -- and does not exactly  
14 mirror the National Park Service recommendations  
15 and should be revised in the future. Did I cover  
16 everything?

17 MS. DEB WATTS: That's pretty good. Can you  
18 get all that down right?

19 MR. WRIGHT DEMPSEY: Uh-huh.

20 MS. AMBER RHEA: Thank goodness we've got

21 audio of it.

22 MS. COURTNEY LANKFORD: Uh-huh.

23 MR. WRIGHT DEMPSEY: Times two. All right.

24 We got a second on that?

25 MS. DEB WATTS: Yes, second.

7

1 MR. WRIGHT DEMPSEY: Okay. So the problem

2 is we're living in this world of subjectivity,

3 it's part of the industry, but we want to be as

4 objective as possible in a subjective criteria.

5 So --

6 MS. AMBER RHEA: Well --

7 MS. DEB WATTS: I mean, we're not.

8 MS. AMBER RHEA: -- this is the best we can

9 do.

10 MR. WRIGHT DEMPSEY: Yeah. So I mean, you

11 do no harm by creating more criteria and

12 distinctions. And --

13 MS. AMBER RHEA: What?

14 MR. WRIGHT DEMPSEY: You're doing no harm in

15 the bigger picture by creating more criteria and

16 distinctions and saying these are the reasons why

17 we're allowing it here.

18 MS. AMBER RHEA: Yep.

19 MR. WRIGHT DEMPSEY: And if somebody comes

20 the next time --

21 MS. COURTNEY LANKFORD: Let's vote.

22 MR. WRIGHT DEMPSEY: We may soften one,

23 but --

24 MS. AMBER RHEA: Yeah. Let's vote.

25 MR. WRIGHT DEMPSEY: Yeah, okay, all right.

8

1 So we have a motion and a second. Any other

2 comment on it?

3 (No other comments.)

4 All right. So we'll vote. So the motion is

5 to -- let me clarify -- I need to reread that one

6 for the record.

7 To approve the application -- the  
8 retroactive application -- to allow painted brick  
9 on the house.

10 Due to the unique circumstances in this  
11 instance, that the applicant was unaware of the  
12 guideline restricting painting to the extent that  
13 it is restricted, based on the research that she  
14 found that she did not receive documents at  
15 closing to show that this was required, that  
16 there was no building permit process required to  
17 paint brick. That specifically, within the  
18 immediate area of influence surrounding this

19 subject house, there were several houses that  
20 have already been painted.

21 That there is a potential conflict with  
22 Guideline 6.1.1, in the Druid Hills Design  
23 Guidelines and the Secretary of the Interior  
24 standards regarding treatment of masonry and  
25 cleaning masonry and applying paint to it.

9

1 MS. AMBER RHEA: You got it.

2 MR. WRIGHT DEMPSEY: Got it? All right.

3 All in favor of that say aye.

4 (Three say aye.)

5 Opposed?

6 (Two opposed.)

7 MR. WRIGHT DEMPSEY: All right. You win by

8 the thinnest of margins.

9 (Proceedings concluded at 9:36 p.m.)

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1            C E R T I F I C A T E

2 STATE OF GEORGIA )

3 COUNTY OF DECATUR )

4            I hereby certify that the foregoing

5 transcript was taken down, as stated in the caption,

6 and the proceedings were reduced to print under my

7 direction and control.

8 I further certify that the transcript is a

9 true and correct record of the evidence given at said

10 proceedings.

11 I further certify that I am neither a

12 relative, employee, attorney or counsel of any of the

13 parties, nor financially or otherwise interested in

14 this matter.

15 This is the 24th day of 2017.

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Barbara J. Jackson, CVR, CCR

Certificate No. 2824

23

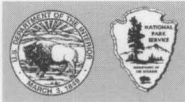
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# 1 PRESERVATION BRIEFS

## Assessing Cleaning and Water-Repellent Treatments for Historic Masonry Buildings

Robert C. Mack, AIA  
Anne Grimmer



U.S. Department of the Interior  
National Park Service  
Cultural Resources  
Heritage Preservation Services

Inappropriate cleaning and coating treatments are a major cause of damage to historic masonry buildings. While either or both treatments may be appropriate in some cases, they can be very destructive to historic masonry if they are not selected carefully. Historic masonry, as considered here, includes stone, brick, architectural terra cotta, cast stone, concrete and concrete block. It is frequently cleaned because cleaning is equated with improvement. Cleaning may sometimes be followed by the application of a water-repellent coating. However, unless these procedures are carried out under the guidance and supervision of an architectural conservator, they may result in irrevocable damage to the historic resource.

The purpose of this Brief is to provide information on the variety of cleaning methods and materials that are available for use on the *exterior* of historic masonry buildings, and to provide guidance in selecting the most appropriate method or combination of methods. The difference between

water-repellent coatings and waterproof coatings is explained, and the purpose of each, the suitability of their application to historic masonry buildings, and the possible consequences of their inappropriate use are discussed.

The Brief is intended to help develop sensitivity to the qualities of historic masonry that makes it so special, and to assist historic building owners and property managers in working cooperatively with architects, architectural conservators and contractors (Fig. 1). Although specifically intended for historic buildings, the information is applicable to all masonry buildings. This publication updates and expands *Preservation Brief 1: The Cleaning and Waterproof Coating of Masonry Buildings*. The Brief is not meant to be a cleaning manual or a guide for preparing specifications. Rather, it provides general information to raise awareness of the many factors involved in selecting cleaning and water-repellent treatments for historic masonry buildings.

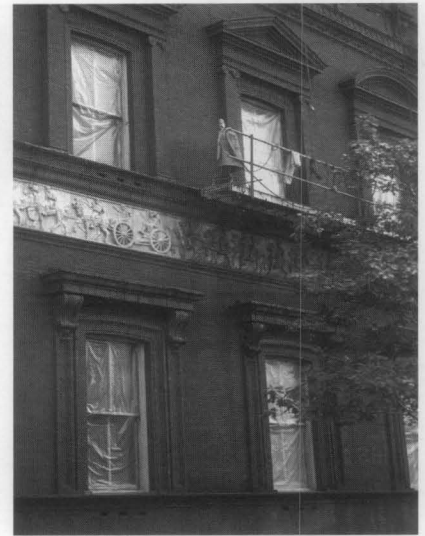


Figure 1. Low-to medium-pressure steam (hot-pressurized water washing), is being used to clean the exterior of the U.S. Tariff Commission Building, the first marble building constructed in Washington, D.C., in 1839. This method was selected by an architectural conservator as the "gentlest means possible" to clean the marble. Steam can soften heavy soiling deposits such as those on the cornice and column capitals, and facilitate easy removal. Note how these deposits have been removed from the right side of the cornice which has already been cleaned.

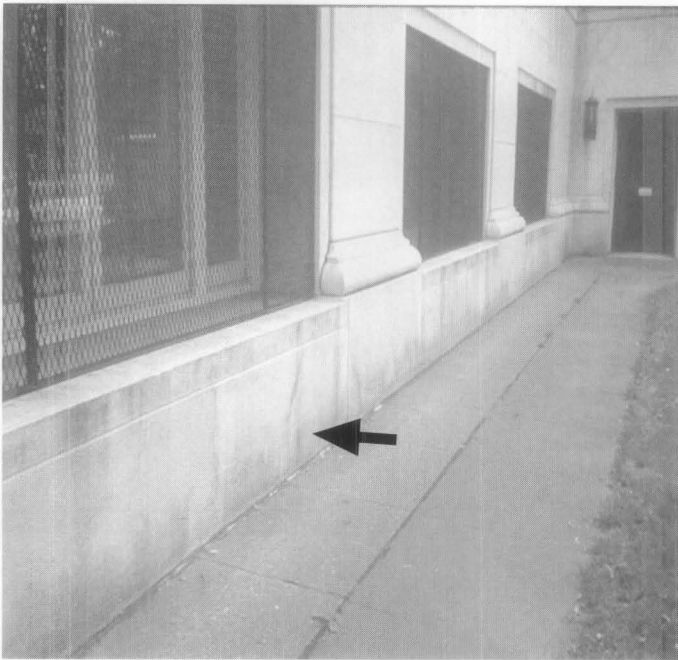


Figure 2. Biological growth as shown on this marble foundation can usually be removed using a low-pressure water wash, possibly with a non-ionic detergent added to it, and scrubbing with a natural or synthetic bristle brush.



Figure 3. This small test area has revealed a red brick patch that does not match the original beige brick. This may explain why the building was painted, and may suggest to the owner that it may be preferable to keep it painted.

## Preparing for a Cleaning Project

**Reasons for cleaning.** First, it is important to determine whether it is appropriate to clean the masonry. The objective of cleaning a historic masonry building must be considered carefully before arriving at a decision to clean. There are several major reasons for cleaning a historic masonry building: **improve the appearance of the building** by removing unattractive dirt or soiling materials, or non-historic paint from the masonry; **retard deterioration** by removing soiling materials that may be damaging the masonry; or **provide a clean surface** to accurately match repointing mortars or patching compounds, or to conduct a condition survey of the masonry.

**Identify what is to be removed.** The general nature and source of dirt or soiling material on a building must be identified to remove it in the *gentlest means possible* — that is, in the most effective, yet least harmful, manner. Soot and smoke, for example, require a different cleaning agent to remove than oil stains or metallic stains. Other common cleaning problems include biological growth such as mold or mildew, and organic matter such as the tendrils left on masonry after removal of ivy (Fig. 2).

**Consider the historic appearance of the building.** If the proposed cleaning is to remove paint, it is important in each case to learn whether or not unpainted masonry is historically appropriate. And, it is necessary to consider why the building was painted (Fig. 3). Was it to cover bad repointing or unmatched repairs? Was the building painted to protect soft brick or to conceal deteriorating stone? Or, was painted masonry simply a fashionable

treatment in a particular historic period? Many buildings were painted at the time of construction or shortly thereafter; retention of the paint, therefore, may be more appropriate historically than removing it. And, if the building appears to have been painted for a long time, it is also important to think about whether the paint is part of the character of the historic building and if it has acquired significance over time.

**Consider the practicalities of cleaning or paint removal.** Some gypsum or sulfate crusts may have become integral with the stone and, if cleaning could result in removing some of the stone surface, it may be preferable not to clean. Even where unpainted masonry is appropriate, the retention of the paint may be more practical than removal in terms of long range preservation of the masonry. In some cases, however, removal of the paint may be desirable. For example, the old paint layers may have built up to such an extent that removal is necessary to ensure a sound surface to which the new paint will adhere.

**Study the masonry.** Although not always necessary, in some instances it can be beneficial to have the coating or paint type, color, and layering on the masonry researched before attempting its removal. Analysis of the nature of the soiling or of the paint to be removed from the masonry, as well as guidance on the appropriate cleaning method, may be provided by professional consultants, including architectural conservators, conservation scientists and preservation architects. The State Historic Preservation Office (SHPO), local historic district commissions, architectural review boards and preservation-oriented websites may also be able to supply useful information on masonry cleaning techniques.

## Understanding the Building Materials

The construction of the building must be considered when developing a cleaning program because inappropriate cleaning can have a deleterious effect on the masonry as well as on other building materials. The masonry material or materials must be correctly identified. It is sometimes difficult to distinguish one type of stone from another; for example, certain sandstones can be easily confused with limestones. Or, what appears to be natural stone may not be stone at all, but cast stone or concrete. Historically, cast stone and architectural terra cotta were frequently used in combination with natural stone, especially for trim elements or on upper stories of a building where, from a distance, these substitute materials looked like real stone (Fig. 4). Other features on historic buildings that appear to be stone, such as decorative cornices, entablatures and window hoods, may not even be masonry, but metal.

**Identify prior treatments.** Previous treatments of the building and its surroundings should be researched and building maintenance records should be obtained, if available. Sometimes if streaked or spotty areas do not seem to get cleaner following an initial cleaning, closer inspection and analysis may be warranted. The discoloration may turn out not to be dirt but the remnant of a water-repellent coating applied long ago which has darkened the surface of the masonry over time (Fig. 5). Successful removal may require testing several cleaning agents to find something that will dissolve and remove the coating. Complete removal may not always be possible. Repairs may have been stained to match a dirty building, and cleaning may make these differences apparent. De-icing salts used near the building that have dissolved can



Figure 4. The foundation of this brick building is limestone, but the decorative trim above is architectural terra cotta intended to simulate stone.



Figure 5. Repeated water washing did not remove the staining inside this limestone porte cochere. Upon closer examination, it was determined to be a water-repellent coating that had been applied many years earlier. An alkaline cleaner may be effective in removing it.

migrate into the masonry. Cleaning may draw the salts to the surface, where they will appear as efflorescence (a powdery, white substance), which may require a second treatment to be removed. Allowances for dealing with such unknown factors, any of which can be a potential problem, should be included when investigating cleaning methods and materials. Just as more than one kind of masonry on a historic building may necessitate multiple cleaning approaches, unknown conditions that are encountered may also require additional cleaning treatments.

**Choose the appropriate cleaner.** The importance of testing cleaning methods and materials cannot be over emphasized. Applying the wrong cleaning agents to historic masonry can have disastrous results. Acidic cleaners can be extremely damaging to acid-sensitive stones, such as marble and limestone, resulting in etching and dissolution of these stones. Other kinds of masonry can also be damaged by incompatible cleaning agents, or even by cleaning agents that are usually compatible. There are also numerous kinds of sandstone, each with a considerably different geological composition. While an acid-based cleaner may be safely used on some sandstones, others are acid-sensitive and can be severely etched or dissolved by an acid cleaner. Some sandstones contain water-soluble minerals and can be eroded by water cleaning. And, even if the stone type is correctly identified, stones, as well as some bricks, may contain unexpected impurities, such as iron particles, that may react negatively with a particular cleaning agent and result in staining. Thorough understanding of the physical and chemical properties of the masonry will help avoid the inadvertent selection of damaging cleaning agents.

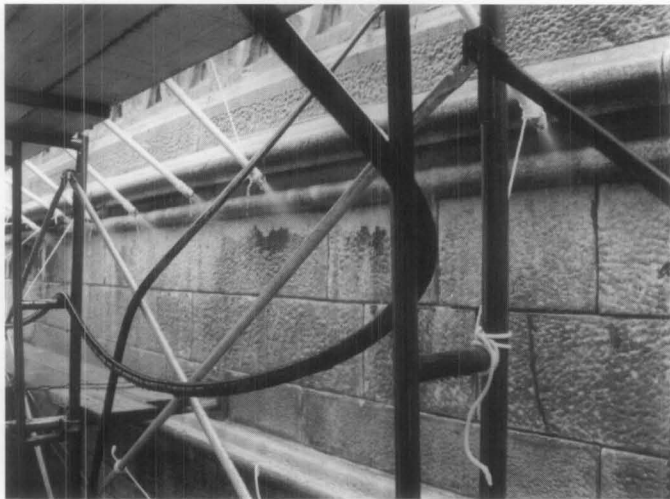


Figure 6. Timed water soaking can be very effective for cleaning limestone and marble as shown here at the Marble Collegiate Church in New York City. In this case, a twelve-hour water soak using a multi-nozzle manifold was followed by a final water rinse. Photo: Diane S. Kaese, Wiss, Janney, Elstner Associates, Inc., N.Y., N.Y.

Other building materials also may be affected by the cleaning process. Some chemicals, for example, may have a corrosive effect on paint or glass. The portions of building elements most vulnerable to deterioration may not be visible, such as embedded ends of iron window bars. Other totally unseen items, such as iron cramps or ties which hold the masonry to the structural frame, also may be subject to corrosion from the use of chemicals or even from plain water. The only way to prevent problems in these cases is to study the building construction in detail and evaluate proposed cleaning methods with this information in mind. However, due to the very likely possibility of encountering unknown factors, any cleaning project involving historic masonry should be viewed as unique to that particular building.

## Cleaning Methods and Materials

Masonry cleaning methods generally are divided into three major groups: water, chemical, and abrasive. *Water methods* soften the dirt or soiling material and rinse the deposits from the masonry surface. *Chemical cleaners* react with dirt, soiling material or paint to effect their removal, after which the cleaning effluent is rinsed off the masonry surface with water. *Abrasive methods* include blasting with grit, and the use of grinders and sanding discs, all of which mechanically remove the dirt, soiling material or paint (and, usually, some of the masonry surface). Abrasive cleaning is also often followed with a water rinse. *Laser cleaning*, although not discussed here in detail, is another technique that is used sometimes by conservators to clean small areas of historic masonry. It can be quite effective for cleaning limited areas, but it is expensive and generally not practical for most historic masonry cleaning projects.

Although it may seem contrary to common sense, masonry cleaning projects should be carried out starting at the

bottom and proceeding to the top of the building always keeping all surfaces wet below the area being cleaned. The rationale for this approach is based on the principle that dirty water or cleaning effluent dripping from cleaning in progress above will leave streaks on a dirty surface but will not streak a clean surface as long as it is kept wet and rinsed frequently.

## Water Cleaning

Water cleaning methods are generally the *gentlest means possible*, and they can be used safely to remove dirt from all types of historic masonry.\* There are essentially four kinds of water-based methods: soaking; pressure water washing; water washing supplemented with non-ionic detergent; and steam, or hot-pressurized water cleaning. Once water cleaning has been completed, it is often necessary to follow up with a water rinse to wash off the loosened soiling material from the masonry.

**Soaking.** Prolonged spraying or misting with water is particularly effective for cleaning limestone and marble. It is also a good method for removing heavy accumulations of soot, sulfate crusts or gypsum crusts that tend to form in protected areas of a building not regularly washed by rain. Water is distributed to lengths of punctured hose or pipe with non-ferrous fittings hung from moveable scaffolding or a swing stage that continuously mists the surface of the masonry with a very fine spray (Fig. 6). A timed on-off spray is another approach to using this cleaning technique. After one area has been cleaned, the apparatus is moved on to another. Soaking is often used in combination with water washing and is also followed by a final water rinse. Soaking is a very slow method — it may take several days or a week—but it is a very gentle method to use on historic masonry.

**Water Washing.** Washing with low-pressure or medium-pressure water is probably one of the most commonly used methods for removing dirt or other pollutant soiling from historic masonry buildings (Fig. 7). Starting with a very low pressure (100 psi or below), even using a garden hose, and progressing as needed to slightly higher pressure —generally no higher than 300-400 psi—is always the recommended way to begin. Scrubbing with natural bristle or synthetic bristle brushes—never metal which can abrade the surface and leave metal particles that can stain the masonry—can help in cleaning areas of the masonry that are especially dirty.

**Water Washing with Detergents.** Non-ionic detergents—which are not the same as soaps—are synthetic organic compounds that are especially effective in removing oily soil. (Examples of some of the numerous proprietary non-ionic detergents include Igepal by GAF, Tergitol by Union Carbide and Triton by Rohm & Haas.) Thus, the addition of a non-ionic detergent, or surfactant, to a low- or medium-pressure water wash can be a useful aid in the cleaning

\*Water cleaning methods may not be appropriate to use on some badly deteriorated masonry because water may exacerbate the deterioration, or on gypsum or alabaster which are very soluble in water.

process. (A non-ionic detergent, unlike most household detergents, does not leave a solid, visible residue on the masonry.) Adding a non-ionic detergent and scrubbing with a natural bristle or synthetic bristle brush can facilitate cleaning textured or intricately carved masonry. This should be followed with a final water rinse.

**Steam/Hot-Pressurized Water Cleaning.** Steam cleaning is actually low-pressure hot water washing because the steam condenses almost immediately upon leaving the hose. This is a gentle and effective method for cleaning stone and particularly for acid-sensitive stones. Steam can be especially useful in removing built-up soiling deposits and dried-up plant materials, such as ivy disks and tendrils. It can also be an efficient means of cleaning carved stone details and, because it does not generate a lot of liquid water, it can sometimes be appropriate to use for cleaning interior masonry (Figs. 8-9).

**Potential hazards of water cleaning.** Despite the fact that water-based methods are generally the most gentle, even they can be damaging to historic masonry. Before beginning a water cleaning project, it is important to make sure that all mortar joints are sound and that the building is watertight. Otherwise water can seep through the walls to the interior, resulting in rusting metal anchors and stained and ruined plaster.

Some water supplies may contain traces of iron and copper which may cause masonry to discolor. Adding a chelating or complexing agent to the water, such as EDTA (ethylene diamine tetra-acetic acid), which inactivates other metallic ions, as well as softens minerals and water hardness, will help prevent staining on light-colored masonry.

Any cleaning method involving water should never be done in cold weather or if there is any likelihood of frost or freezing because water within the masonry can freeze, causing spalling and cracking. Since a masonry wall may take over a week to dry after cleaning, no water cleaning should be permitted for several days prior to the first average frost date, or even earlier if local forecasts predict cold weather.

Most essential of all, it is important to be aware that using water at too high a pressure, a practice common to "power washing" and "water blasting", is very abrasive and can easily etch marble and other soft stones, as well as some types of brick (Figs. 10-11). In addition, the distance of the nozzle from the masonry surface and the type of nozzle, as well as gallons per minute (gpm), are also important variables in a water cleaning process that can have a significant impact on the outcome of the project. This is why it is imperative that the cleaning be closely monitored to ensure that the cleaning operators do not raise the pressure or bring the nozzle too close to the masonry in an effort to "speed up" the process. The appearance of grains of stone or sand in the cleaning effluent on the ground is an indication that the water pressure may be too high.



Figure 7. Glazed architectural terra cotta often may be cleaned successfully with a low-pressure water wash and hand scrubbing supplemented, if necessary, with a non-ionic detergent. Photo: National Park Service Files.

## Chemical Cleaning

Chemical cleaners, generally in the form of proprietary products, are another material frequently used to clean historic masonry. They can remove dirt, as well as paint and other coatings, metallic and plant stains, and graffiti. Chemical cleaners used to remove dirt and soiling include **acids, alkalis** and **organic compounds**. Acidic cleaners, of course, should not be used on masonry that is acid sensitive. Paint removers are **alkaline**, based on **organic solvents** or other chemicals.

## Chemical Cleaners to Remove Dirt

Both alkaline and acidic cleaning treatments include the use of water. Both cleaners are also likely to contain surfactants (wetting agents), that facilitate the chemical reaction that removes the dirt. Generally, the masonry is wet first for both types of cleaners, then the chemical cleaner is sprayed on at very low pressure or brushed onto the surface. The cleaner is left to dwell on the masonry for an amount of time recommended by the product manufacturer or, preferably, determined by testing, and rinsed off with a low- or moderate-pressure cold, or sometimes hot, water wash. More than one application of the cleaner may be necessary, and it is always a good practice to test the product manufacturer's recommendations concerning dilution rates and dwell times. Because each cleaning situation is unique, dilution rates and dwell times can vary considerably. The masonry surface may be scrubbed lightly with natural or synthetic bristle brushes prior to rinsing. After rinsing, pH strips should be applied to the surface to ensure that the masonry has been neutralized completely.



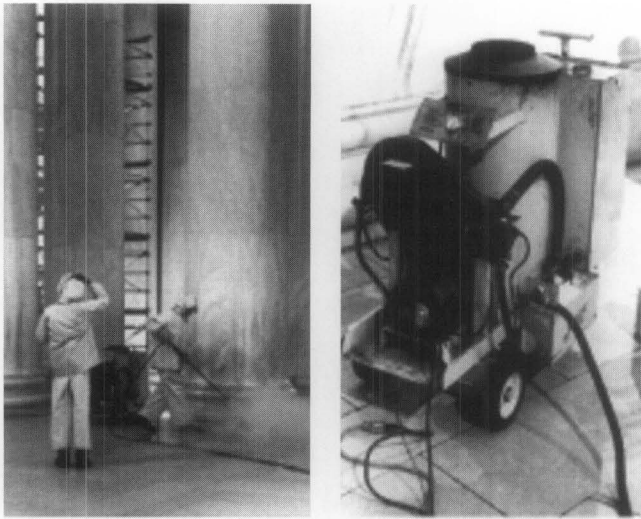


Figure 8. (Left) Low-pressure (under 100 psi) steam cleaning (hot-pressurized water washing), is part of the regular maintenance program at the Jefferson Memorial, Washington, D.C. The white marble interior of this open structure is subject to constant soiling by birds, insects and visitors. (Right) This portable steam cleaner enables prompt cleanup when necessary. Photos: National Park Service Files.

**Acidic Cleaners.** Acid-based cleaning products may be used on **non-acid sensitive** masonry, which generally includes: granite, most sandstones, slate, unglazed brick and unglazed architectural terra cotta, cast stone and concrete (Fig. 12). Most commercial acidic cleaners are composed primarily of hydrofluoric acid, and often include some phosphoric acid to prevent rust-like stains from developing on the masonry after the cleaning. Acid cleaners are applied to the pre-wet masonry which should be kept wet while the acid is allowed to "work", and then removed with a water wash.

**Alkaline Cleaners.** Alkaline cleaners should be used on **acid-sensitive** masonry, including: limestone, polished and unpolished marble, calcareous sandstone, glazed brick and glazed architectural terra cotta, and polished granite. (Alkaline cleaners may also be used sometimes on masonry materials that are not acid sensitive—after testing, of course

—but they may not be as effective as they are on acid-sensitive masonry.) Alkaline cleaning products consist primarily of two ingredients: a non-ionic detergent or surfactant; and an alkali, such as potassium hydroxide or ammonium hydroxide. Like acidic cleaners, alkaline products are usually applied to pre-wet masonry, allowed to dwell, and then rinsed off with water. (Longer dwell times may be necessary with alkaline cleaners than with acidic cleaners.) Two additional steps are required to remove alkaline cleaners after the initial rinse. First the masonry is given a slightly acidic wash—often with acetic acid—to neutralize it, and then it is rinsed again with water.

**Chemical Cleaners to Remove Paint and Other Coatings, Stains and Graffiti**

Removing paint and some other coatings, stains and graffiti can best be accomplished with alkaline paint removers, organic solvent paint removers, or other cleaning compounds. The removal of layers of paint from a masonry surface usually involves applying the remover either by brush, roller or spraying, followed by a thorough water wash. As with any chemical cleaning, the manufacturer's recommendations regarding application procedures should always be tested before beginning work.

**Alkaline Paint Removers.** These are usually of much the same composition as other alkaline cleaners, containing potassium or ammonium hydroxide, or trisodium phosphate. They are used to remove oil, latex and acrylic paints, and are effective for removing multiple layers of paint. Alkaline cleaners may also remove some acrylic, water-repellent coatings. As with other alkaline cleaners, both an acidic neutralizing wash and a final water rinse are generally required following the use of alkaline paint removers.

**Organic Solvent Paint Removers.** The formulation of organic solvent paint removers varies and may include a combination of solvents, including methylene chloride, methanol, acetone, xylene and toluene.

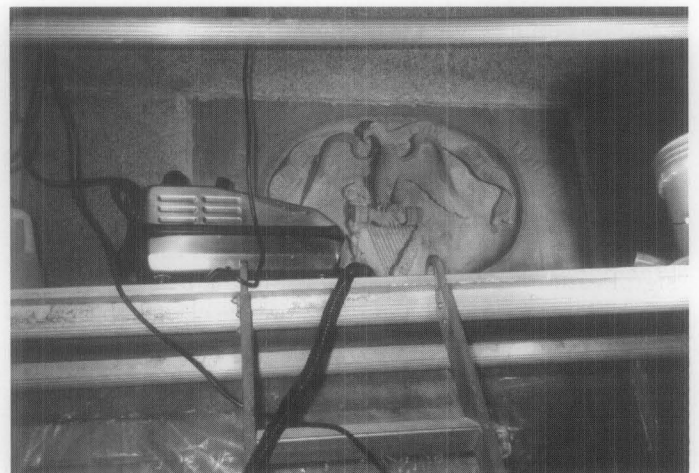


Figure 9. (Left) This small steam cleaner—the size of a vacuum cleaner—offers a very controlled and gentle means of cleaning limited, or hard-to-reach areas or carved stone details. (Right) It is particularly useful for interiors where it is important to keep moisture to a minimum, such as inside the Washington Monument, Washington, D.C., where it was used to clean the commemorative stones. Photos: Audrey T. Tepper.



Figure 10. High-pressure water washing too close to the surface has abraded and, consequently, marred the limestone on this early-20th century building.

**Other Paint Removers and Cleaners.** Other cleaning compounds that can be used to remove paint and some painted graffiti from historic masonry include paint removers based on N-methyl-2-pyrrolidone (NMP), or on petroleum-based compounds. Removing stains, whether they are industrial (smoke, soot, grease or tar), metallic (iron or copper), or biological (plant and fungal) in origin, depends on carefully matching the type of remover to the type of stain (Fig. 13). Successful removal of stains from historic masonry often requires the application of a number of different removers before the right one is found. The removal of layers of paint from a masonry surface is usually accomplished by applying the remover either by brush, roller or spraying, followed by a thorough water wash (Fig. 14).

**Potential hazards of chemical cleaning.** Since most chemical cleaning methods involve water, they have many of the potential problems of plain water cleaning. Like water methods, they should not be used in cold weather because of the possibility of freezing. Chemical cleaning should never be undertaken in temperatures below 40 degrees F (4 degrees C), and generally not below 50 degrees F. In addition, many chemical cleaners simply do not work in cold temperatures. Both acidic and alkaline cleaners can be dangerous to cleaning operators and, clearly, there are environmental concerns associated with the use of chemical cleaners.

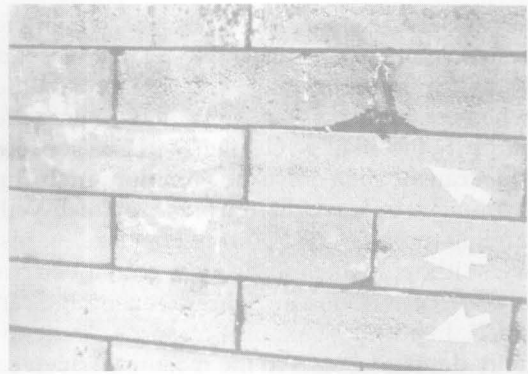


Figure 11. Rinsing with high-pressure water following chemical cleaning has left a horizontal line of abrasion across the bricks on this late-19th century row house.

If not carefully chosen, chemical cleaners can react adversely with many types of masonry. Obviously, acidic cleaners should not be used on acid-sensitive materials; however, it is not always clear exactly what the composition is of any stone or other masonry material. For this reason, testing the cleaner on an inconspicuous spot on the building is always necessary. While certain acid-based cleaners may be appropriate if used as directed on a particular type of masonry, if left too long or if not adequately rinsed from the masonry they can have a negative effect. For example, hydrofluoric acid can etch masonry leaving a hazy residue (whitish deposits of silica or calcium fluoride salts) on the surface. While this efflorescence may usually be removed by a second cleaning—although it is likely to be expensive and time-consuming—hydrofluoric acid can also leave calcium fluoride salts or a colloidal silica deposit on masonry which may be impossible to remove (Fig. 15). Other acids, particularly hydrochloric (muriatic) acid, which is very powerful, should not be used on historic masonry, because it can dissolve lime-based mortar, damage brick and some stones, and leave chloride deposits on the masonry.



Figure 12. A mild acidic cleaning agent is being used to clean this heavily soiled brick and granite building. Additional applications of the cleaner and hand-scrubbing, and even poulticing, may be necessary to remove the dark stains on the granite arches below. Photo: Sharon C. Park, FAIA.

Alkaline cleaners can stain sandstones that contain a ferrous compound. Before using an alkaline cleaner on sandstone it is always important to test it, since it may be difficult to know whether a particular sandstone may contain a ferrous compound. Some alkaline cleaners, such as **sodium hydroxide (caustic soda or lye)** and **ammonium bifluoride**, can also damage or leave disfiguring brownish-yellow stains and, in most cases, should not be used on historic masonry. Although alkaline cleaners will not etch a masonry surface as acids can, they are caustic and can burn the surface. In addition, alkaline cleaners can deposit potentially damaging salts in the masonry which can be difficult to rinse thoroughly.

### Abrasive and Mechanical Cleaning

Generally, abrasive cleaning methods are not appropriate for use on historic masonry buildings. Abrasive cleaning methods are just that—abrasive. Grit blasters, grinders, and sanding discs all operate by *abrading* the dirt or paint off the surface of the masonry, rather than *reacting* with the dirt and the masonry which is how water and chemical methods work. Since the abrasives do not differentiate between the dirt and the masonry, they can also remove the outer surface of the masonry at the same time, and result in permanently damaging the masonry. Brick, architectural terra cotta, soft stone, detailed carvings, and polished surfaces are especially susceptible to physical and aesthetic damage by abrasive methods. Brick and architectural terra cotta are fired products which have a smooth, glazed surface which can be removed by abrasive blasting or grinding (Figs. 18-19). Abrasively-cleaned masonry is damaged aesthetically as well as physically, and it has a rough surface which tends to hold dirt and the roughness will make future cleaning more difficult. Abrasive cleaning processes can also increase the likelihood of subsurface cracking of the masonry. Abrasion of carved details causes a rounding of sharp corners and other loss of delicate features, while abrasion of polished surfaces removes the polished finish of stone.

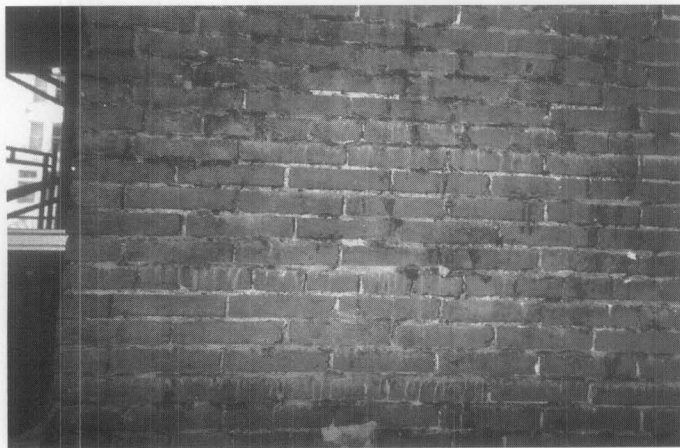


Figure 13. Sometimes it may be preferable to paint over a thick asphaltic coating rather than try to remove it, because it can be difficult to remove completely. However, in this case, many layers of asphaltic coating were removed through multiple applications of a heavy duty chemical cleaner. Each application of the cleaner was left to dwell following the manufacturer's recommendations, and then rinsed thoroughly. (As much as possible of the asphalt was first removed with wooden scrapers.) Although not all the asphalt was removed, this was determined to be an acceptable level of cleanliness for the project.



Figure 14. Chemical removal of paint from this brick building has revealed that the cornice and window hoods are metal rather than masonry.

Mortar joints, especially those with lime mortar, also can be eroded by abrasive or mechanical cleaning. In some cases, the damage may be visual, such as loss of joint detail or increased joint shadows. As mortar joints constitute a significant portion of the masonry surface (up to 20 per cent in a brick wall), this can result in the loss of a considerable amount of the historic fabric. Erosion of the mortar joints may also permit increased water penetration, which will likely necessitate repointing.



Figure 15. The whitish deposits left on the brick by a chemical paint remover may have resulted from inadequate rinsing or from the chemical being left on the surface too long and may be impossible to remove.

## Poulticing to Remove Stains and Graffiti

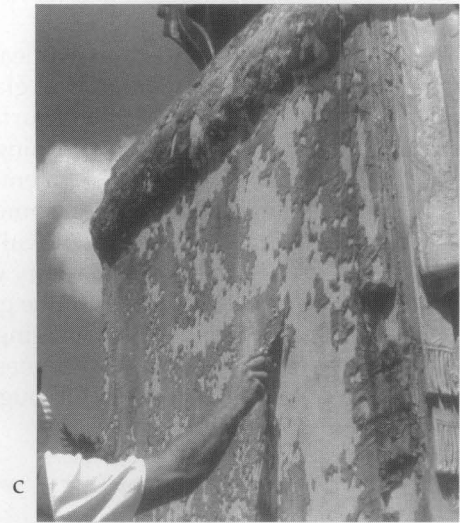


Figure 16. (a) The limestone base was heavily stained by runoff from the bronze statue above. (b) A poultice consisting of copper stain remover and ammonia mixed with fuller's earth was applied to the stone base and covered with plastic sheeting to keep it from drying out too quickly. (c) As the poultice dried, it pulled the stain out of the stone. (d) The poultice residue was removed carefully from the stone surface with wooden scrapers and the stone was rinsed with water. Photos: John Dugger.

Graffiti and stains, which have penetrated into the masonry, often are best removed by using a poultice. A poultice consists of an absorbent material or clay powder (such as kaolin or fuller's earth, or even shredded paper or paper towels), mixed with a liquid (solvent or other remover) to form a paste which is applied to the stain (Figs. 16-17). As it dries, the paste absorbs the staining material so that it is not redeposited on the masonry surface. Some commercial cleaning products and paint removers are specially formulated as a paste or gel that will cling to a vertical surface and remain moist for a longer period of time in order to prolong the action of the chemical on the stain. Pre-mixed poultices are also available as a paste or in powder form needing only the addition of the appropriate liquid. The masonry must be pre-wet before applying an alkaline cleaning agent, but not when using a solvent. Once the stain has been removed, the masonry must be rinsed thoroughly.



Figure 17. A poultice is being used to remove salts from the brownstone statuary on the facade of this late-19th century stone church. Photo: National Park Service Files.



Figure 18. The glazed bricks in the center of the pier were covered by a signboard that protected them from being damaged by the sandblasting which removed the glaze from the surrounding bricks.

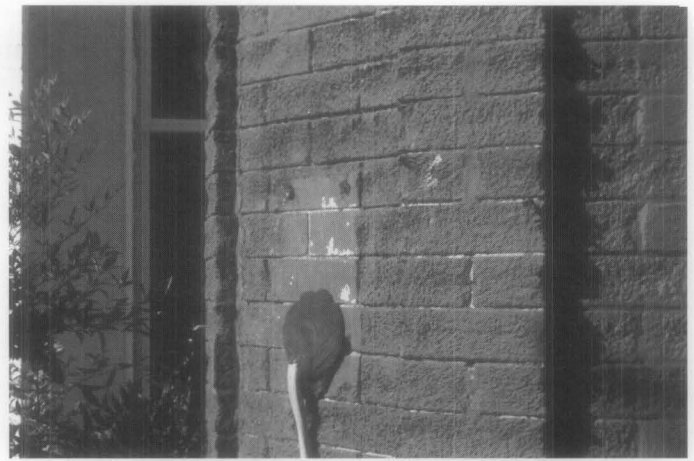


Figure 19. A comparison of undamaged bricks surrounding the electrical conduit with the rest of the brick facade emphasizes the severity of the erosion caused by sandblasting.

**Abrasive Blasting.** Blasting with abrasive grit or another abrasive material is the most frequently used abrasive method. *Sandblasting* is most commonly associated with abrasive cleaning. Finely ground silica or glass powder, glass beads, ground garnet, powdered walnut and other ground nut shells, grain hulls, aluminum oxide, plastic particles and even tiny pieces of sponge, are just a few of the other materials that have also been used for abrasive cleaning. Although abrasive blasting is not an appropriate method of cleaning historic masonry, it can be safely used to clean some materials. Finely-powdered walnut shells are commonly used for cleaning monumental bronze sculpture, and skilled conservators clean delicate museum objects and finely detailed, carved stone features with very small, micro-abrasive units using aluminum oxide.

A number of current approaches to abrasive blasting rely on materials that are not usually thought of as abrasive, and not as commonly associated with traditional abrasive grit cleaning. Some patented abrasive cleaning processes—one dry, one wet—use finely-ground glass powder intended to “erase” or remove dirt and surface soiling only, but not paint or stains (Fig. 20). Cleaning with baking soda (sodium bicarbonate) is another patented process. Baking soda blasting is being used in some communities as a means of quick graffiti removal. However, it should not be used on historic masonry which it can easily abrade and can permanently “etch” the graffiti into the stone; it can also leave potentially damaging salts in the stone which cannot be removed. Most of these abrasive grits may be used either dry or wet, although dry grit tends to be used more frequently.

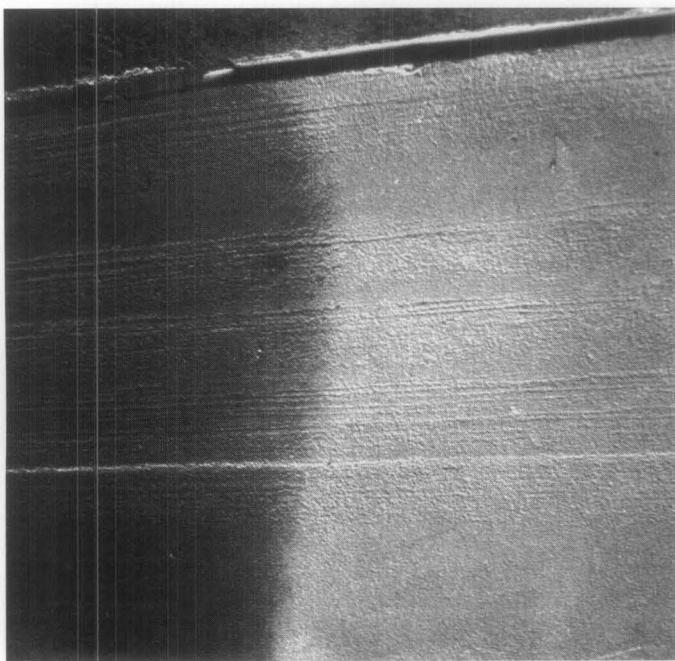


Figure 20. (Left) A comparison of the limestone surface of a 1920s office building before and after “cleaning” with a proprietary abrasive process using fine glass powder clearly shows the effectiveness of this method. But this is an abrasive technique and it has “cleaned” by removing part of the masonry surface with the dirt. Because it is abrasive, it is generally not recommended for large-scale cleaning of historic masonry, although it may be suitable to use in certain, very limited cases under controlled circumstances. (Right) A vacuum chamber where the used glass powder is collected for environmentally safe disposal is a unique feature of this particular process. The specially-trained operators in the chamber wear protective clothing, masks and breathing equipment. Photos: Tom Keohan.

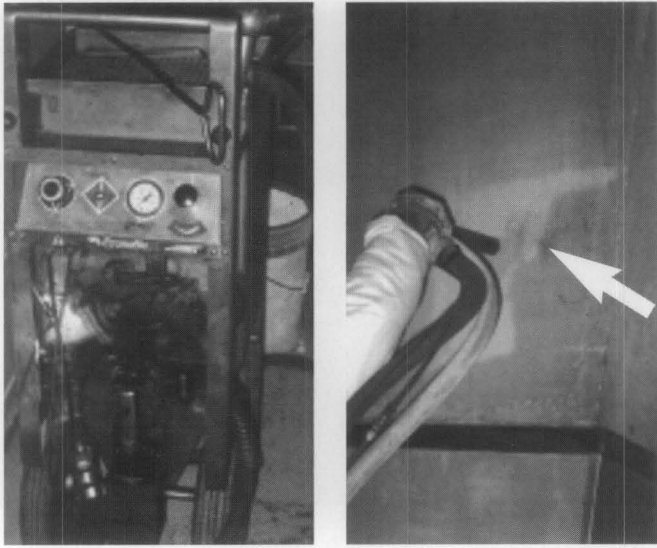


Figure 21. Low-pressure blasting with ice pellets or ice crystals (left) is an abrasive cleaning method that is sometimes recommended for use on interior masonry because it does not involve large amounts of water. However, like other abrasive materials, ice crystals "clean" by removing a portion of the masonry surface with the dirt, and may not remove some stains that have penetrated into the masonry without causing further abrasion (right). Photos: Audrey T. Tepper.

Ice particles, or pelletized dry ice (carbon dioxide or CO<sub>2</sub>), are another medium used as an abrasive cleaner (Fig. 21). This is also too abrasive to be used on most historic masonry, but it may have practical application for removing mastics or asphaltic coatings from some substrates.

Some of these processes are promoted as being more environmentally safe and not damaging to historic masonry buildings. However, it must be remembered that they are abrasive and that they "clean" by removing a small portion of the masonry surface, even though it may be only a minuscule portion. The fact that they are essentially abrasive treatments must always be taken into consideration when planning a masonry cleaning project. *In general, abrasive methods should not be used to clean historic masonry buildings.* In some, very limited instances, highly-controlled, gentle abrasive cleaning may be appropriate on selected, hard-to-clean areas of a historic masonry building if carried out under the watchful supervision of a professional conservator. But, abrasive cleaning should never be used on an entire building.

**Grinders and Sanding Disks.** Grinding the masonry surface with mechanical grinders and sanding disks is another means of abrasive cleaning that should not be used on historic masonry. Like abrasive blasting, grinders and disks do not really clean masonry but instead grind away and abrasively remove and, thus, damage the masonry surface itself rather than remove just the soiling material.

## Planning A Cleaning Project

Once the masonry and soiling material or paint have been identified, and the condition of the masonry has been evaluated, planning for the cleaning project can begin.

**Testing cleaning methods.** In order to determine the *gentlest means possible*, several cleaning methods or materials may have to be tested prior to selecting the best one to use on the building. Testing should always begin with the gentlest and least invasive method proceeding gradually, if necessary, to more complicated methods, or a combination of methods. All too often simple methods, such as low-pressure water wash, are not even considered, yet they frequently are effective, safe, and not expensive. Water of slightly higher pressure or with a non-ionic detergent additive also may be effective. It is worth repeating that these methods should always be tested prior to considering harsher methods; they are safer for the building and the environment, often safer for the applicator, and relatively inexpensive.

The level of cleanliness desired also should be determined prior to selection of a cleaning method. Obviously, the intent of cleaning is to remove most of the dirt, soiling material, stains, paint or other coating. A "brand new" appearance, however, may be inappropriate for an older building, and may require an overly harsh cleaning method to be achieved. When undertaking a cleaning project, it is important to be aware that some stains simply may not be removable. It may be wise, therefore, to agree upon a slightly lower level of cleanliness that will serve as the standard for the cleaning project. The precise amount of residual dirt considered acceptable may depend on the type of masonry, the type of soiling and difficulty of total removal, and local environmental conditions.

Cleaning tests should be carried out in an area of sufficient size to give a true indication of their effectiveness. It is preferable to conduct the test in an inconspicuous location on the building so that it will not be obvious if the test is not successful. A test area may be quite small to begin, sometimes as small as six square inches, and gradually may be increased in size as the most appropriate methods and cleaning agents are determined. Eventually the test area may be expanded to a square yard or more, and it should include several masonry units and mortar joints (Fig. 22). It should be remembered that a single building may have several types of masonry and that even similar materials may have different surface finishes. Each material and different finish should be tested separately. Cleaning tests should be evaluated only after the masonry has dried completely. *The results of the tests may indicate that several methods of cleaning should be used on a single building.*

When feasible, test areas should be allowed to weather for an extended period of time prior to final evaluation. A waiting period of a full year would be ideal in order to expose the test patch to a full range of seasons. If this is not possible, the test patch should weather for at least a month or two. For any building which is considered historically important, the delay is insignificant compared to the potential damage and disfigurement which may result from using an incompletely tested method. *The successfully cleaned test patch should be protected as it will serve as a standard against which the entire cleaning project will be measured.*

**Environmental considerations.** The potential effect of any method proposed for cleaning historic masonry should be evaluated carefully. Chemical cleaners and paint removers may damage trees, shrubs, grass, and plants. A plan must be provided for environmentally safe removal and disposal of the cleaning materials and the rinsing effluent before beginning the cleaning project. Authorities from the local regulatory agency – usually under the jurisdiction of the federal or state Environmental Protection Agency (EPA) should be consulted prior to beginning a cleaning project, especially if it involves anything more than plain water washing. This advance planning will ensure that the cleaning effluent or run-off, which is the combination of the cleaning agent and the substance removed from the masonry, is handled and disposed of in an environmentally sound and legal manner. Some alkaline and acidic cleaners can be neutralized so that they can be safely discharged into storm sewers. However, most solvent-based cleaners cannot be neutralized and are categorized as pollutants, and must be disposed of by a licensed transport, storage and disposal facility. Thus, it is always advisable to consult with the appropriate agencies before starting to clean to ensure that the project progresses smoothly and is not interrupted by a stop-work order because a required permit was not obtained in advance.

Vinyl guttering or polyethylene-lined troughs placed around the perimeter of the base of the building can serve to catch chemical cleaning waste as it is rinsed off the building. This will reduce the amount of chemicals entering and polluting the soil, and also will keep the cleaning waste contained until it can be removed safely. Some patented cleaning systems have developed special equipment to facilitate the containment and later disposal of cleaning waste.

Concern over the release of volatile organic compounds (VOCs) into the air has resulted in the manufacture of new, more environmentally responsible cleaners and paint removers, while some materials traditionally used in cleaning may no longer be available for these same reasons. Other health and safety concerns have created additional cleaning challenges, such as lead paint removal, which is likely to require special removal and disposal techniques.

Cleaning can also cause damage to non-masonry materials on a building, including glass, metal and wood. Thus, it is usually necessary to cover windows and doors, and other features that may be vulnerable to chemical cleaners. They should be covered with plastic or polyethylene, or a masking agent that is applied as a liquid which dries to form a thin protective film on glass, and is easily peeled off after the cleaning is finished. Wind drift, for example, can also damage other property by carrying cleaning chemicals onto nearby automobiles, resulting in etching of the glass or spotting of the paint finish. Similarly, airborne dust can enter surrounding buildings, and excess water can collect in nearby yards and basements.

**Safety considerations.** Possible health dangers of each method selected for the cleaning project must be considered before selecting a cleaning method to avoid harm to the

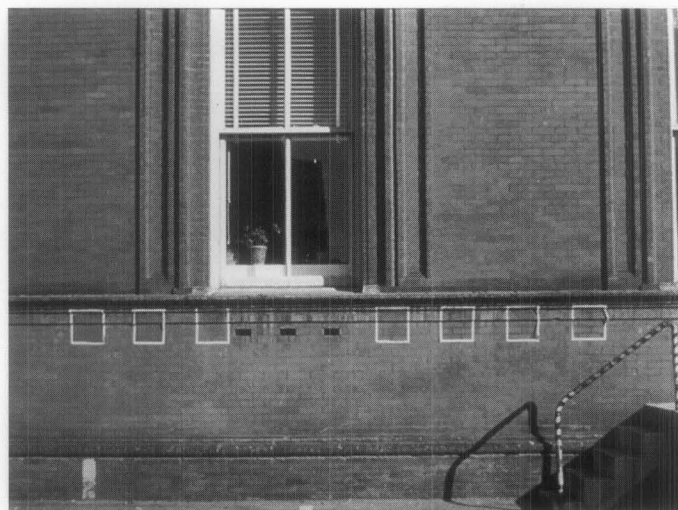


Figure 22. Cleaning test areas may be quite small at first and gradually increase in size as testing determines the "gentlest means possible".  
Photo: Frances Gale.

cleaning applicators, and the necessary precautions must be taken. The precautions listed in Material Safety Data Sheets (MSDS) that are provided with chemical products should always be followed. Protective clothing, respirators, hearing and face shields, and gloves must be provided to workers to be worn at all times. Acidic and alkaline chemical cleaners in both liquid and vapor forms can also cause serious injury to passers-by (Fig. 23). It may be necessary to schedule cleaning at night or weekends if the building is located in a busy urban area to reduce the potential danger of chemical overspray to pedestrians. Cleaning during non-business hours will allow HVAC systems to be turned off and vents to be covered to prevent dangerous chemical fumes from entering the building which will also ensure the safety of the building's occupants. Abrasive and mechanical methods produce dust which can pose a serious health hazard, particularly if the abrasive or the masonry contains silica.

## Water-Repellent Coatings and Waterproof Coatings

To begin with, it is important to understand that waterproof coatings and water-repellent coatings are not the same. Although these terms are frequently interchanged and commonly confused with one another, they are completely different materials. **Water-repellent coatings** – often referred to incorrectly as "sealers", but which do not or should not seal – are intended to keep liquid water from penetrating the surface but to allow water vapor to enter and leave, or pass through, the surface of the masonry (Fig. 24). Water-repellent coatings are generally *transparent*, or clear, although once applied some may darken or discolor certain types of masonry while others may give it a glossy or shiny appearance. **Waterproof coatings** seal the surface from liquid water and from water vapor. They are usually *opaque*, or pigmented, and include bituminous coatings and some elastomeric paints and coatings.

## Water-Repellent Coatings

Water-repellent coatings are formulated to be vapor permeable, or "breathable". They do not seal the surface completely to water vapor so it can enter the masonry wall as well as leave the wall. While the first water-repellent coatings to be developed were primarily acrylic or silicone resins in organic solvents, now most water-repellent coatings are water-based and formulated from modified siloxanes, silanes and other alkoxysilanes, or metallic stearates. While some of these products are shipped from the factory ready to use, other waterborne water repellents must be diluted at the job site. Unlike earlier water-repellent coatings which tended to form a "film" on the masonry surface, modern water-repellent coatings actually penetrate into the masonry substrate slightly and, generally, are almost invisible if properly applied to the masonry. They are also more vapor permeable than the old coatings, yet they still reduce the vapor permeability of the masonry. Once inside the wall, water vapor can condense at cold spots producing liquid water which, unlike water vapor, cannot escape through a water-repellent coating. The liquid water within the wall, whether from condensation, leaking gutters, or other sources, can cause considerable damage.

Water-repellent coatings are not consolidants. Although modern water repellents may penetrate slightly beneath the masonry surface, instead of just "sitting" on top of it, they do not perform the same function as a consolidant which is to "consolidate" and replace lost binder to strengthen deteriorating masonry. Even after many years of laboratory study and testing few consolidants have proven very effective. The composition of fired products such as brick and architectural terra cotta, as well as many types of building stone, does not lend itself to consolidation.

Some modern water-repellent coatings which contain a binder intended to replace the natural binders in stone that have been lost through weathering and natural erosion are described in product literature as both a water repellent and a consolidant. The fact that newer water-repellent coatings penetrate beneath the masonry surface instead of just forming a layer on top of the surface may indeed convey at least some consolidating properties to certain stones. However, a water-repellent coating cannot be considered a consolidant. In some instances, a water-repellent or "preservative" coating, if applied to already damaged or spalling stone, may form a surface crust which, if it fails, may exacerbate the deterioration by pulling off even more of the stone (Fig. 25).

### Is a Water-Repellent Treatment Necessary?

Water-repellent coatings are frequently applied to historic masonry buildings for the wrong reason. They also are often applied without an understanding of what they are and what they are intended to do. And these coatings can be very difficult, if not impossible, to remove from the masonry if they fail or become discolored. Most importantly, the application of water-repellent coatings to historic masonry is usually unnecessary.



Figure 23. A tarpaulin protects and shields pedestrians from potentially harmful spray while chemical cleaning is underway on the granite exterior of the U.S. Treasury Building, Washington, D.C.

Most historic masonry buildings, unless they are painted, have survived for decades without a water-repellent coating and, thus, probably do not need one now. Water penetration to the interior of a masonry building is seldom due to porous masonry, but results from poor or deferred maintenance. Leaking roofs, clogged or deteriorated gutters and downspouts, missing mortar, or cracks and open joints around door and window openings are almost always the cause of moisture-related problems in a historic masonry building. **If historic masonry buildings are kept watertight and in good repair, water-repellent coatings should not be necessary.**

Rising damp (capillary moisture pulled up from the ground), or condensation can also be a source of excess moisture in masonry buildings. A water-repellent coating will not solve this problem either and, in fact, may be likely to exacerbate it. Furthermore, a water-repellent coating should never be applied to a damp wall. Moisture in the wall would reduce the ability of a coating to adhere to the masonry and to penetrate below the surface. But, if it did adhere, it would hold the moisture inside the masonry because, although a water-repellent coating is permeable to water vapor, liquid water cannot pass through it. In the case of rising damp, a coating may force the moisture to go even higher in the wall because it can slow down evaporation, and thereby retain the moisture in the wall.

Excessive moisture in masonry walls may carry waterborne soluble salts from the masonry units themselves or from the mortar through the walls. If the water is permitted to come to the surface, the salts may appear on the masonry surface as efflorescence (a whitish powder) upon evaporation. However, the salts can be potentially dangerous if they remain in the masonry and crystallize





Figure 24. Although the application of a water-repellent coating was probably not needed on either of these buildings, the coating on the brick building (above), is not visible and has not changed the character of the brick. But the coating on the brick column (below), has a high gloss that is incompatible with the historic character of the masonry.



beneath the surface as subflorescence. Subflorescence eventually may cause the surface of the masonry to spall, particularly if a water-repellent coating has been applied which tends to reduce the flow of moisture out from the subsurface of the masonry. Although many of the newer water-repellent products are more breathable than their predecessors, they can be especially damaging if applied to masonry that contains salts, because they limit the flow of moisture through masonry.

### When a Water-Repellent Coating May be Appropriate

There are some instances when a water-repellent coating may be considered appropriate to use on a historic masonry building. Soft, incompletely fired brick from the 18th- and early-19th centuries may have become so porous that paint or some type of coating is needed to protect it from further deterioration or dissolution. When a masonry building has been neglected for a long period of time, necessary repairs may be required in order to make it watertight. If, following a reasonable period of time after the building has been made watertight and has dried out completely, moisture appears actually to be penetrating through the repointed and repaired masonry walls, then the application of a water-repellent coating may be considered *in selected areas only*. This decision should be made in consultation with an architectural conservator. And, if such a treatment is undertaken, it should not be applied to the entire exterior of the building.

Anti-graffiti or barrier coatings are another type of clear coating—although barrier coatings can also be pigmented—that may be applied to exterior masonry, but they are not formulated primarily as water repellents. The purpose of these coatings is to make it harder for graffiti to stick to a masonry surface and, thus, easier to clean. But, like water-repellent coatings, in most cases the application of anti-graffiti coatings is generally not recommended for historic masonry buildings. These coatings are often quite shiny which can greatly alter the appearance of a historic masonry surface, and they are not always effective (Fig. 26). Generally, other ways of discouraging graffiti, such as improved lighting, can be more effective than a coating. However, the application of anti-graffiti coatings may be appropriate in some instances on vulnerable areas of historic masonry buildings which are frequent targets of graffiti that are located in out-of-the-way places where constant surveillance is not possible.

Some water-repellent coatings are recommended by product manufacturers as a means of keeping dirt and pollutants or biological growth from collecting on the surface of masonry buildings and, thus, reducing the need for frequent cleaning. While this at times may be true, in some cases a coating may actually retain dirt more than uncoated masonry. Generally, the application of a water-repellent coating is not recommended on a historic masonry building as a means of preventing biological growth. Some water-repellent coatings may actually encourage biological growth on a masonry wall. Biological growth on masonry buildings has traditionally been kept at bay through regularly-scheduled cleaning as part of a maintenance plan. Simple cleaning of the masonry with low-pressure water using a natural- or synthetic-bristled scrub brush can be very effective if done on a regular basis. Commercial products are also available which can be sprayed on masonry to remove biological growth.

**In most instances, a water-repellent coating is not necessary if a building is watertight.** The application of a water-repellent coating is not a recommended treatment for historic masonry buildings unless there is a specific



Figure 25. The clear coating applied to this limestone molding has failed and is taking off some of the stone surface as it peels. Photo: Frances Gale.

problem which it may help solve. If the problem occurs on only part of the building, it is best to treat only that area rather than an entire building. Extreme exposures such as parapets, for example, or portions of the building subject to driving rain can be treated more effectively and less expensively than the entire building. Water-repellent coatings are not permanent and must be reapplied

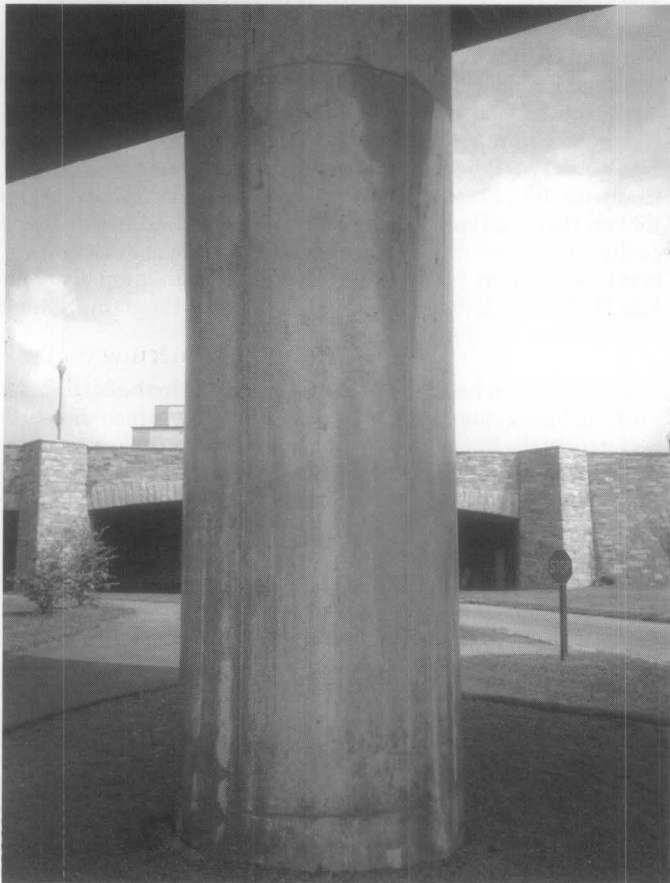


Figure 26. The anti-graffiti or barrier coating on this column is very shiny and would not be appropriate to use on a historic masonry building. The coating has discolored as it has aged and whitish streaks reveal areas of bare concrete where the coating was incompletely applied.

periodically although, if they are truly invisible, it can be difficult to know when they are no longer providing the intended protection.

Testing a water-repellent coating by applying it in one small area may not be helpful in determining its suitability for the building because a limited test area does not allow an adequate evaluation of such a treatment. Since water may enter and leave through the surrounding untreated areas, there is no way to tell if the coated test area is "breathable." But trying a coating in a small area may help to determine whether the coating is visible on the surface or if it will otherwise change the appearance of the masonry.

### Waterproof Coatings

In theory, waterproof coatings usually do not cause problems as long as they exclude all water from the masonry. If water does enter the wall from the ground or from the inside of a building, the coating can intensify the damage because the water will not be able to escape. During cold weather this water in the wall can freeze causing serious mechanical disruption, such as spalling.

In addition, the water eventually will get out by the path of least resistance. If this path is toward the interior, damage to interior finishes can result; if it is toward the exterior, it can lead to damage to the masonry caused by built-up water pressure (Fig. 27).

**In most instances, waterproof coatings should not be applied to historic masonry.** The possible exception to this might be the application of a waterproof coating to below-grade exterior foundation walls as a last resort to stop water infiltration on interior basement walls. **Generally, however, waterproof coatings, which include elastomeric paints, should almost never be applied above grade to historic masonry buildings.**



Figure 27. Instead of correcting the roof drainage problems, an elastomeric coating was applied to the already saturated limestone cornice. An elastomeric coating holds moisture in the masonry because it does not "breathe" and does not allow liquid moisture to escape. If the water pressure builds up sufficiently it can cause the coating to break and pop off as shown in this example, often pulling pieces of the masonry with it. Photo: National Park Service Files.

## Summary

A well-planned cleaning project is an essential step in preserving, rehabilitating or restoring a historic masonry building. Proper cleaning methods and coating treatments, when determined necessary for the preservation of the masonry, can enhance the aesthetic character as well as the structural stability of a historic building. Removing years of accumulated dirt, pollutant crusts, stains, graffiti or paint, if done with appropriate caution, can extend the life and longevity of the historic resource. Cleaning that is carelessly or insensitively prescribed or carried out by inexperienced workers can have the opposite of the intended effect. It may scar the masonry permanently, and may actually result in hastening deterioration by introducing harmful residual chemicals and salts into the masonry or causing surface loss. Using the wrong cleaning method or using the right method incorrectly, applying the wrong kind of coating or applying a coating that is not needed can result in serious damage, both physically and aesthetically, to a historic masonry building. Cleaning a historic masonry building should always be done using the *gentlest means possible* that will clean, but not damage the building. It should always be taken into consideration before applying a water-repellent coating or a waterproof coating to a historic masonry building whether it is really necessary and whether it is in the best interest of preserving the building.

## Selected Reading

*Architectural Ceramics: Their History, Manufacture and Conservation*. A Joint Symposium of English Heritage and the United Kingdom Institute for Conservation, September 22-25, 1994. London: English Heritage, 1996.

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Sinvinski, Valerie. "Gentle Blasting." *Old-House Journal*. Vol. XXIV, No. 4 (July-August 1996), pp. 46-49.

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## Acknowledgments

**Robert C. Mack, FAIA**, is a principal in the firm of MacDonald & Mack Architects, Ltd., an architectural firm that specializes in historic buildings in Minneapolis, Minnesota.

**Anne Grimmer** is a Senior Architectural Historian in the Technical Preservation Services Branch, Heritage Preservation Services Program, National Park Service, Washington, D.C.

The original version of *Preservation Brief 1: The Cleaning and Waterproof Coating of Masonry Buildings* was written by Robert C. Mack, AIA. It inaugurated the *Preservation Briefs* series when it was published in 1975.

The following historic preservation specialists provided technical review of this publication: Frances Gale, Training Director, National Center for Preservation Technology and Training, National Park Service, Natchitoches, LA; Judith M. Jacob, Architectural Conservator, Building Conservation Branch, Northeast Cultural Resources Center, National Park Service, N.Y., NY; Robert M. Powers, Architectural Conservator, Powers and Company, Inc., Philadelphia, PA; Antonio Aguilar, Kaaren Dodge, JoEllen Hensley, Gary Sachau, John Sandor and Audrey T. Tepper, Technical Preservation Services Branch, Heritage Preservation Services Program, National Park Service, Washington, D.C.; and Kay D. Weeks, Heritage Preservation Services Program, National Park Service, Washington, D.C.

This publication has been prepared pursuant to the National Historic Preservation Act of 1966, as amended, which directs the Secretary of the Interior to develop and make available information concerning historic properties. Comments on the usefulness of this publication may be directed to: Sharon C. Park, FAIA, Chief, Technical Preservation Services Branch, Heritage Preservation Services Program, National Park Service, 1849 C Street, N.W., Suite NC200, Washington, D.C. 20240 ([www2.cr.nps.gov/tps](http://www2.cr.nps.gov/tps)). This publication is not copyrighted and can be reproduced without penalty. Normal procedures for credit to the authors and the National Park Service are appreciated.

*Front Cover: Chemical cleaning of the brick and architectural terra cotta frieze on the 1880s Pension Building, Washington, D.C. (now the National Building Museum), is shown here in progress. Photo: Christina Henry.*

*Photographs used to illustrate this Brief were taken by Anne Grimmer unless otherwise credited.*



[Home](#) > [The Standards](#) > Rehabilitation Standards and Guidelines

## Rehabilitation Standards and Guidelines

The Secretary of the Interior's Standards for Rehabilitation, codified as 36 CFR 67, are regulatory for the [Historic Preservation Tax Incentives program](#). The Guidelines for Rehabilitating Historic Buildings and the Guidelines on Sustainability for Rehabilitating Historic Buildings, which assist in applying the Standards, are advisory.

### [Applying the Standards for Rehabilitation](#)

#### [Guidelines for Rehabilitating Historic Buildings](#)

#### [Guidelines on Sustainability](#)

### Other Standards and Guidelines:

#### [Four Treatment Standards: Preservation, Rehabilitation, Restoration, and Reconstruction](#)

#### [Guidelines for the Treatment of Historic Properties](#)

#### [History of the Standards](#)

## Secretary's Standards for Rehabilitation

Rehabilitation projects must meet the following Standards, as interpreted by the National Park Service, to qualify as "certified rehabilitations" eligible for the 20% rehabilitation tax credit. The Standards are applied to projects in a reasonable manner, taking into consideration economic and technical feasibility.

The Standards apply to historic buildings of all periods, styles, types, materials, and sizes. They apply to both the exterior and the interior of historic buildings. The Standards also encompass related landscape features and the building's site and environment as well as attached, adjacent, or related new construction.

1. A property shall be used for its historic purpose or be placed in a new use that requires minimal change to the defining characteristics of the building and its site and environment.
2. The historic character of a property shall be retained and preserved. The removal of historic materials or alteration of features and spaces that characterize a property shall be avoided.
3. Each property shall be recognized as a physical record of its time, place, and use. Changes that create a false sense of historical development, such as adding conjectural features or architectural elements from other buildings, shall not be undertaken.
4. Most properties change over time; those changes that have acquired historic significance in their own right shall be retained and preserved.
5. Distinctive features, finishes, and construction techniques or examples of craftsmanship that characterize a historic property shall be preserved.
6. Deteriorated historic features shall be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature shall match the old in design, color, texture, and other visual qualities and, where possible, materials. Replacement of missing features shall be substantiated by documentary, physical, or pictorial evidence.

7. Chemical or physical treatments, such as sandblasting, that cause damage to historic materials shall not be used. The surface cleaning of structures, if appropriate, shall be undertaken using the gentlest means possible.
8. Significant archeological resources affected by a project shall be protected and preserved. If such resources must be disturbed, mitigation measures shall be undertaken.
9. New additions, exterior alterations, or related new construction shall not destroy historic materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the massing, size, scale, and architectural features to protect the historic integrity of the property and its environment.
10. New additions and adjacent or related new construction shall be undertaken in such a manner that if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.

### **Guidelines for Rehabilitating Historic Buildings**

The **Guidelines** assist in applying the Standards to rehabilitation projects in general; consequently, they are not meant to give case-specific advice or address exceptions or rare instances. For example, they cannot tell a building owner which features of an historic building are important in defining the historic character and must be preserved or which features could be altered, if necessary, for the new use. Careful case-by-case decision-making is best accomplished by seeking assistance from qualified historic preservation professionals in the planning stage of the project. Such professionals include architects, architectural historians, historians, archeologists, and others who are skilled in the preservation, rehabilitation, and restoration of the historic properties. These Guidelines are also available in **PDF format**.

The **Guidelines on Sustainability for Rehabilitating Historic Buildings** stress the inherent sustainability of historic buildings and offer specific guidance on "recommended" rehabilitation treatments and "not recommended" treatments, which could negatively impact a building's historic character. These Guidelines are also available as an **interactive web feature**.

**Sent:** Sunday, November 05, 2017 8:14 PM

**To:** Keller, Jill

**Subject:** Fwd: 932 Clifton Road

Sent from my iPhone

Begin forwarded message:

**From:** Rex Friedlein <[pupshirebuilders@yahoo.com](mailto:pupshirebuilders@yahoo.com)>  
**Date:** November 5, 2017 at 12:17:00 AM EDT  
**To:** "[jill.r.keller@gmail.com](mailto:jill.r.keller@gmail.com)" <[jill.r.keller@gmail.com](mailto:jill.r.keller@gmail.com)>  
**Subject:** Re: 932 Clifton Road  
**Reply-To:** "[pupshirebuilders@yahoo.com](mailto:pupshirebuilders@yahoo.com)" <[pupshirebuilders@yahoo.com](mailto:pupshirebuilders@yahoo.com)>

In regards your inquiry about removing paint from brick portions of your house, There is no totally effective way of achieving this goal.

Sand blasting would be particularly invasive to the neighbors as it requires sand that would release large amounts of silica dust, and im sure you have been made aware of OSHA guidelines regarding the release of silica dust.

The cost factor to comply to osha guidelines make this job impractical.

It should also be noted that even when sandblasting is used, it is NOT 100% effective at removing all traces of paint from brick and mortar. The paint pigments stain the brick and mortar

and trying to remove this requires removing a portion of the mortar and the surface of the bricks. This action could compromise the structural integrity of the brickwork.

Often times the body of new brick (such as yours) is not the same color as the finished surface of the brick. Surface textures and colors are added during production.

The underling material would likely not be a uniform look.

I would not attempt to do this job as i see too many potential problems

Sent from Yahoo Mail on Android

On Fri, Nov 3, 2017 at 4:28 PM, Jill Keller  
<[jill.r.keller@gmail.com](mailto:jill.r.keller@gmail.com)> wrote:

Rex, it was great meeting you today, and I look forward to hearing from you re the work we discussed.

All the best,  
Jill

Sent from my iPhone

Please consider the environment before printing this email.

The information contained in this email may be confidential and/or legally privileged. It has been sent for the sole use of the intended recipient(s). If the reader of this message is not an intended recipient, you are hereby notified that any unauthorized review, use, disclosure, dissemination, distribution, or copying of this communication, or any of its contents, is strictly prohibited. If you have received this communication in error, please reply to the sender and destroy all copies of the message. To contact us directly, send to [postmaster@diapiper.com](mailto:postmaster@diapiper.com). Thank you.



Louis Hengen  
932 Clifton Road NE  
Atlanta, Ga. 30307

November 2, 2017

Re: Paint Removal from Brick

Mr. Hengen:

Thank you for the opportunity to quote you on the paint removal from the brick on your home. I inspected the home today with the explicit purpose of providing a quote.

Upon inspection, I determined that this is a project that cannot be safely completed. I will attempt to share with you my findings and reasons for my conclusions.

(1) Brick – the finish of this particular type of brick will not allow any sort of abrasive substance to be used to remove the paint. Both the look of the brick and the integrity of the brick would be compromised. Our process would utilize an abrasive material mixed with water and “blasted” at pressure to remove the paint. The result would be both an “aesthetic” change in the finish of the brick and a compromise of the integrity of the brick because the brick would lack a sealer to keep moisture from entering; thus resulting in efflorescence stains recurring year after year.

(2) Furthermore, IF you were able to get past the above statement, here are the steps that would have to be done to even attempt a successful removal.

(a) All fixtures attached to the home would have to be removed. Gutters and downspouts would also need to be removed.

(b) All windows, doors, garage doors, decks, and porches would have to be securely covered with a combination of plywood and flashing to prevent abrasive from getting onto the painted window frames and windows themselves. However, there is no guarantee that this covering would 100% guarantee no abrasive to enter and do damage to the windows and window frames.

3535 Peachtree Rd NE,  
Suite 520-158,  
Atlanta Ga. 30326  
404-797-4250  
[www.ecovbs.com](http://www.ecovbs.com)



(c) All of the remaining home trim (painted stucco, wood frames, wood beams, and slate patio) would have to be covered. However, because of the proximity of these things directly abutting the brick, there would be damage done to them via the abrasive blasting, even with the best, most painstaking coverage attempts.

(d) A containment barrier would have to be erected between your home and the neighbors on both sides. This would eliminate a great deal of "flying dust, but it would not completely eliminate the possibility of dust flying on a neighboring property.

(e) Because of the sloping nature of the home and because of the very restricted access for equipment, there would be no safe way to erect either scaffolding or utilize a boom lift to reach the higher areas of the home.

(f) Finally, there would be a concern about the noise made by the equipment needed to remove the paint from the brick. It may exceed neighborhood noise limitations, if applicable.

Mr. Hengen, I am sorry that I was unable to provide a quote for you but there would not be way to safely protect my workers, and to remove the paint without causing a tremendous amount of damage to your home.

Please feel free to contact me with any questions you may have.

Again, thank you for the opportunity.

Regards,

Winston DuBose

President

3535 Peachtree Rd NE,  
Suite 520-158,  
Atlanta Ga. 30326  
404-797-4250  
[www.ecovbs.com](http://www.ecovbs.com)





Code Enforcement Division  
1807 Cassler Road, Decatur, GA 30032  
(P) 404-687-3700 (F) 404-534-1270  
codeenforce@dekalbcountyga.gov

212421

Map Ref: 18003  
Svc. Req. \_\_\_\_\_  
Case#: \_\_\_\_\_

**CODE ENFORCEMENT OFFICIAL WARNING NOTICE**

DATE: 7-10-17

\*TIME: \_\_\_\_\_

TO: HENRY W. HARRIS JR  
ADDRESS: 433 Cassler Rd  
Atlanta Ga 30307

Owner  Occupant  Agent  Contractor

LOCATION OF VIOLATION: Same CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_

DURING AN INSPECTION OF THE ABOVE MENTIONED PROPERTY, THE FOLLOWING VIOLATION(S) WAS/WERE OBSERVED:

INOPERABLE, UNLICENSED VEHICLE(S)	BUSINESS LICENSE	SIGNAGE
PARKING ON UNPAVED SURFACE	VACANT, UNSECURED STRUCTURE	NO PERMIT
HIGH WEEDS AND GRASS	UNPERMITTED DAY CARE	NO HVAC, ELECTRICITY OR WATER
OPEN STORAGE TRASH & DEBRIS	IMPROPER ZONING	EXTERIOR DAMAGE
RECREATIONAL/COMMERCIAL VEHICLE	BUSINESS IN HOME	OTHER

CODE SECTION(S): 27-3.2216

YOU ARE HEREBY NOTIFIED TO PERFORM THE FOLLOWING CORRECTIVE ACTIONS BEFORE

THE 22 DAY OF July 20 17 \*TIME: \_\_\_\_\_  
(IF MORE TIME IS NEEDED FOR COMPLIANCE, CONTACT THE OFFICER AT THE NUMBER LISTED BELOW BEFORE THIS DATE TO REQUEST AN EXTENSION.)

Cease/Desist  Remove from Property  Obtain Permit  Cut & Maintain  Repair/Replace  Secure  Other

SPECIAL INSTRUCTIONS/COMMENTS

Place of this certificate is appropriate  
for all exterior work done on property

FAILURE TO CORRECT WILL RESULT IN ISSUANCE OF A COURT SUMMONS TO APPEAR IN MAGISTRATE COURT.  
MAXIMUM FINE PER COURT SUMMONS IS \$1,000.00 AND/OR 60 DAYS IN JAIL. EACH DAY IS A SEPARATE OFFENSE.

TYPE OF SERVICE:  POSTED  PERSONAL  MAILED  OTHER

Officer Name: SPAN

Badge # 4052 Telephone 404-687-8270

Received By Name: \_\_\_\_\_

REFUSED TO SIGN

WHITE COPY: ORIGINAL

YELLOW COPY: DEFENDANT

PINK COPY: CASE FILE

AMBER COPY: FILE



**Code Enforcement Division**  
 1807 Candler Road, Decatur, GA 30032  
 (P) 404-687-3700 (F) 404-534-1270  
 codeenforce@dekalbcountyga.gov

215311

Map Ref: \_\_\_\_\_  
 Svc. Req: \_\_\_\_\_  
 Case#: \_\_\_\_\_

**CODE ENFORCEMENT OFFICIAL WARNING NOTICE**

DATE: 7/8/17

\*TIME: \_\_\_\_\_

TO: Henley, Kellan Louis Henley

Owner  Occupant  Agent  Contractor

ADDRESS: \_\_\_\_\_

LOCATION OF VIOLATION: 932 Clinton RD CITY ALANTA STATE GA ZIP 30307

*DURING AN INSPECTION OF THE ABOVE-MENTIONED PROPERTY, THE FOLLOWING VIOLATION(S) WAS/WERE OBSERVED:*

INOPERABLE, UNLICENSED VEHICLE(S)	BUSINESS LICENSE	SIGNAGE
PARKING ON UNPAVED SURFACE	VACANT, UNSECURED STRUCTURE	NO PERMIT
HIGH WEEDS AND GRASS	UNPERMITTED DAY CARE	NO HVAC, ELECTRICITY OR WATER
OPEN STORAGE TRASH & DEBRIS	IMPROPER ZONING	EXTERIOR DAMAGE
RECREATIONAL/COMMERCIAL VEHICLE	BUSINESS IN HOME	OTHER <input checked="" type="checkbox"/>

CODE SECTION(S): 27-13-58(c)

YOU ARE HEREBY NOTIFIED TO PERFORM THE FOLLOWING CORRECTIVE ACTIONS BEFORE

THE 15 DAY OF July, 2017; \*TIME: \_\_\_\_\_  
 (IF MORE TIME IS NEEDED FOR COMPLIANCE, CONTACT THE OFFICER AT THE NUMBER LISTED BELOW BEFORE THIS DATE  
 TO REQUEST AN EXTENSION.)

Cease/Desist  Remove from Property  Obtain Permit  Cut & Maintain  Repair/Replace  Secure  Other

SPECIAL INSTRUCTIONS/COMMENTS I Pay ADD all Charges to LAHUK  
of structure since comply with Historic District, and  
A Certificate of Appropriateness issued in Compliance.

FAILURE TO CORRECT WILL RESULT IN ISSUANCE OF A COURT SUMMONS TO APPEAR IN MAGISTRATE COURT.  
 MAXIMUM FINE PER COURT SUMMONS IS \$1,000.00 AND/OR 60 DAYS IN JAIL. EACH DAY IS A SEPARATE OFFENSE.

TYPE OF SERVICE:  POSTED  PERSONAL  MAILED  OTHER \_\_\_\_\_

Officer Name: Henley, Kellan

Badge # 4490

Telephone# 770-652-0805

Received By Name: \_\_\_\_\_

Date: \_\_\_\_\_

REFUSED TO SIGN

WHITE COPY: ORIGINAL

YELLOW COPY: DEFENDANT

PINK COPY: CASE FILE

AMBER COPY: FILE

STATE OF GEORGIA

COUNTY OF FULTON

**AFFIDAVIT OF CHASE MIZELL**

Personally, appeared before me, the undersigned notary public, duly authorized to administer oaths, **Chase Mizell**, who being first sworn, states the facts set forth in the paragraphs below are true and correct, to the best of her knowledge and belief.

1.

My name is Chase Mizell, and I am over eighteen (18) years of age and am competent to give this affidavit.

2.

I am a licensed real estate agent with Atlanta Fine Homes Sotheby's International Realty, and I represented the Hengens in their purchase of 932 Clifton Road in March of 2017.

3.

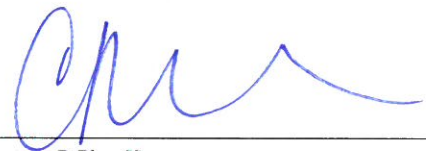
When the Hengens expressed interested in pursuing 932 Clifton Road, they made it clear that they would only be interested in doing so if they could paint the exterior of the home. In order to advise the Hengens, I discussed the legality of painting the exterior with several neighborhood real estate experts, all of whom told me that the home could be legally painted because it is not a historic structure. I was also advised to refer to the Design Manual for Druid Hills Local District. The Druid Hills Civic Association's website ([www.druidhills.org](http://www.druidhills.org)) also recommends consulting the Design Manual before making plans. In review of the design manual, there is only reference to exterior paint when discussing rehabilitation of historic buildings; it does not offer any guidelines for newer construction or non-historic buildings. Further, the appendices of the

document states that “historic designation does NOT... (4) require permission to paint your house.” I determined that the reasonable interpretation of this statement concludes that one does not need permission to paint the exterior of their home.

4.

When we closed on the purchase of 932 Clifton Road, there were no disclosures provided by the closing attorney, by the county, or by the civic association that informed the Hengens of the local laws pertaining to the historic district. There are also no classes or courses (i.e. continuing education) provided to real estate professionals by the Dekalb Board of Realtors or the Atlanta Realtor’s Association that educates real estate professionals on the guidelines of the historic district. I was required to rely solely on my own research, which concluded with the findings outlined above in paragraph 3.

**FURTHER AFFIANT SAYETH NOT.**



Chase Mizell

Subscribed and sworn to before me  
this 6 day of November, 2017.

Nicole Marie Feldman

Notary Public

My Commission Expires: 6/25/21

