



SB 2381 Copper Stain Remover Liquid

SB 2381 CSR Liquid is a liquid blend of organic and inorganic chemicals with a strong ammonia odor. It is designed to dissolve and lift the green stains that result from copper, bronze and brass corrosion. These stains are usually found on exterior concrete, unpolished marble and limestone surfaces. SB 2381 is the same as SB 2380 except it is not thickened. It may be used as a pretreatment cleaner and additive for SB 2382 CSR Poultice to remove the last of deeper set stains. Often the SB 2380 CSR Gel alone is sufficient to remove the complete stain but its high viscosity limits its ability to penetrate the stone to get the remnants of deeply embedded stains.

Preparation

Provide protection for foliage and pedestrian traffic. Test all surfaces, which may be exposed to product for possible adverse reactions. Protect all surfaces and surrounding areas from possible damage which might occur from spillage or spray during usage.

All projects should start with a test application to determine the suitability of the cleaner, acceptable application method and dwell time. Test applications should be done in the area of the worst staining. When possible, the test area should be left to age for 10 or more days to check for possible latent reactions with the substrate.

Dilution and Coverage

Dilution: 0 to 2 parts water to 1 part product -- test application recommended
Coverage: Dependent upon substrate and other conditions

Application

SB 2381 CSR Liquid is a thin, mobile liquid that is usually applied by brushing on or by mixing with the SB 2382 CSR Poultice. A dwell time of 5 to 15 minutes is most effective. **Leaving the cleaner on the surface for more than 15 minutes may lead to difficulty in removal of the stain from the surface.** In some cases, additional brushing of the applied cleaner, after the first 5 minutes, may prove to be helpful. When the applied cleaner has turned to a bright blue color, it is time for removal with a pressure washer or scrub brush and hose. When using the SB 2381 CSR Liquid with the poultice, follow the instructions with the poultice. After rinsing the surface, reapply the cleaner to a test area. If the cleaner turns blue, there is additional copper stain available for removal. Repeat the application procedure until there is no color change in the applied cleaner.

After the first application, spot cleaning of deep-seated stains may be all that is required to complete the project. In all cases, the cleaner should be applied to all surfaces until there is no color reaction in any area. Failure to follow this procedure may result in an unsatisfactory application of a water repellent, if one is required for the project, or subsurface stains may leach to the surface at a later time.

In some cases conservators apply too much product and fail to rinse it completely. This will result in a delayed reaction where embedded cleaner was reactivated by rain and blue color returned after the cleaning crew had moved on. Failure to

follow this procedure may result in an unsatisfactory application of a water repellent, if one is required for the project, as subsurface stains may leach to the surface at a later time. **DO NOT MIX SB 2380 OR SB 2381 WITH OTHER BRANDS OF POULTICES.** Make sure to read and understand the separate ShoreBest COPPER STAIN REMOVAL Procedure for more details use and instructions. Some competitive brands of poultice have been shown to hinder copper stain removal.

Technical Data

Appearance: Pale Yellow Liquid	pH: 13
Biodegradable: Yes	Rinsing: Complete
Flash Point: None	Solubility: 100%
Odor: Ammonia	Stability: Good

Safety

Causes severe skin burns and eye damage. Causes serious eye damage.



DANGER

Refer to product SDS or product label for hazard statements, precautionary statements and safety information

Warranty

Shore Corporation warrants that this product conforms to the chemical composition described in the Product Label. SHORE CORPORATION EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Shore Corporation shall not be responsible for any direct or consequential damages sustained as a result of the use of this product. Further, Shore Corporation shall not be liable for personal injuries, property damage or any other damages as a result of the use of this product, the sole responsibility of Shore Corporation under the within WARRANTY being the replacement of any nonconforming product. Acceptance and use of this product absolves Shore Corporation from any other such liability whatsoever and from whatever source. The within WARRANTY may not be modified or extended by Shore Corporation representatives or distributors, neither of which are empowered to make any product representation inconsistent with the terms hereof.

Contact

Trained representatives are available to assist with project assistance and product recommendations. Call **412/471-3330**.