

SYSTEM 95

Penetrating Consolidants/Strengtheners for Mineral Substrates

Including Natural Stone, Mortar, Stucco, Mineral Coatings & Concrete; Compatible with Natural Cement, Lime and Portland Cement Binders; Regular and VOC-Compliant Water Repellent Grades

DESCRIPTION:

SYSTEM 95

consolidants are penetrating, reactive silicic ester-based treatments. They are designed for consolidation and strengthening of many types of natural stone, masonry, concrete and other mineral substrates. When treated with SYSTEM 95, many surfaces weakened by weathering, carbonation or degradation of cementitious components may regain cohesive strength due to formation of calcium silicate binder within the pore structure. With proper pre-testing and application, service life of original building materials may be prolonged.

Consolidant Requirements

SYSTEM 95 meets all of the performance requirements for mineral substrate consolidants:

- ◆ **Deep Penetration**
- ◆ **Substantial Increase in Strength of Treated Substrate**
- ◆ **Non-Tacky Surfaces Avoid Dirt Pick-Up**
- ◆ **Does Not Adversely Affect Appearance**
- ◆ **No Significant Reduction in Vapor Permeability**

Performance

SYSTEM 95 effectiveness in strengthening sandstone is indicated by the reduction in weight loss under abrasion, as shown in the graph, above right. Reductions of up to 95% in weight loss are achieved by using two or more treatments of **SYSTEM 95**.

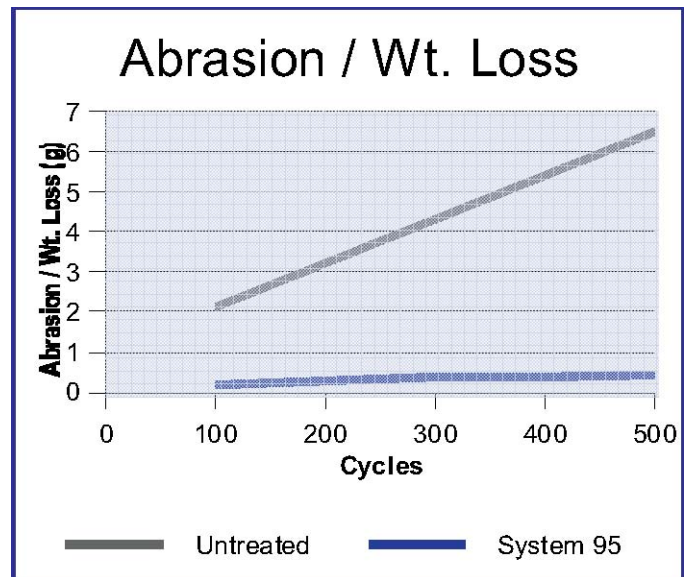


Figure: Loss in weight by Taber Abraser, Treated vs. Untreated Sandstone, at number of Cycles Indicated

Compatible Substrates

Sandstones	Mortars
Certain Limestones	Natural Cement
Concrete & Cast Stone	Lime
Stuccos & Renders	Hydraulic Lime
Mineral Coatings	Portland Cement

Pre-testing of treatment for effectiveness by Edison Coatings is strongly recommended.

VOC COMPLIANCE:

System 95 Regular Grade VOC = 480 g/l; complies with federal standard of <600 g/l

System 95 VOC Water Repellent Grade complies with more stringent state and regional standards <400 g/l

APPLICATION:

Minimum Application Temperature: 5°C (40°F)

Maximum Application Temperature: 30°C (86°F)

1. **Surface Preparation:** Apply **SYSTEM 95** to clean, dry concrete, stone or masonry substrates, free of grease, oil, dirt, organic coatings or other materials which may interfere with consolidant penetration, or which may stain upon consolidant contact. **Complete any repairs prior to treatment.** For best results, use **SYSTEM 95** consolidant in conjunction with these other Edison products:

- SYSTEM 44, Custom SYSTEM 45, Rosendale 13P or Deck-Top 47** patching compounds
- Pump-X53-Series or Rosendale 11G** injection grouts
- CEM-PLAST 54 or Rosendale 14S** stuccos
- SPEC-JOINT 46 or Rosendale 12M** repointing mortars

2. **Application:** **SYSTEM 95** is generally applied in 1-4 coats. Airless spray is the preferred method of application, but material may also be applied by brush or roller if care is taken to apply evenly. Begin by applying consolidant as heavily as possible, saturating the surface, but avoiding excessive rundown. If material is absorbed within 1 minute, apply another wet-on-wet pass. On porous/low strength surfaces requiring multiple applications, allow drying between coats, but reapply next coat within 4 hours.

On vertical surfaces, the product should be applied in such a manner as to saturate the surface without creating a heavy rundown. For best results, work from the bottom up.

On horizontal surfaces, apply sufficient material so that consolidant “stands” for several minutes before being fully absorbed.

Avoid leaving excess material on the surface, which may affect surface appearance. Rinse off excess consolidant before drying using VOC-exempt solvent. **NOTE:** Many solvents are hazardous materials. Read and observe the Material Safety and handling guidelines provided by solvent manufacturers. Observe all federal state and local regulations in handling of any hazardous wastes.

3. **Temperature Limits & Curing:** **SYSTEM 95** consolidants generally develop water resistance within 12 hours after drying, and generally require no special protection or curing thereafter.

Do not apply when rain is anticipated within 12 hours of application, and protect, if necessary, during that 12-hour cure period.

4. **Compatibility:** **SYSTEM 95**, particularly when thinned with VOC-Exempt solvents, may attack asphalt, roofing materials, uncured caulk and some coatings. Do not apply without protecting surfaces or materials which may be damaged by contact.

5. **Safety & Handling:** Carefully read and observe all safety and handling guidelines as detailed in the Material Safety Data Sheets supplied with this product.



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