

# REPAIR GUARD

## TECHNICAL DATA SHEET

A-REPAIR

A water-borne consolidant and water-repellent for decaying absorptive surfaces such as concrete, stone, brick, and mortar.

### PRODUCT DESCRIPTION

Repair Guard is a water-borne consolidant and protectant, intended for use over porous surfaces. Repair Guard's nanoparticles stabilize loose and worn surfaces by chemically attaching to the applied surface, and covalently interconnecting with one another. The effect is a dense system of particles that enhance the mechanical properties of worn or deteriorated materials.

Natural appearance and water vapor permeability and porosity of a Repair Guard-treated surface remain unaffected. Repair Guard maintains a surface's breathability without sealing the pores of the substrate.

### ADVANTAGES

- Penetrative formula
- Enhances soundness of treated substrates
- Retains surface breathability
- Retains surface's natural appearance
- Inorganic liquid formulation
- Non-film-forming
- Weathering-resistant
- Cost-effective and easy to apply

### COMPATIBLE SUBSTRATES

- Concrete
- Brick
- Limestone
- Cement
- Granite
- Stone

### USES

- Building façade
- Exterior walkways & hardscapes

### PRODUCT INFORMATION

#### Available Packaging

1 gal. unit

#### Storage Conditions

Store dry at 40-95 °F (4-35 °C)  
Store in a cool, well-ventilated area.  
Keep container tightly closed.  
Store locked up.

## TECHNICAL INFORMATION

Type	Liquid suspension
Color	Transparent
Odor	Very slight rubbing alcohol odor
pH	10.0 ± 0.5
VOC Content	< 2 g / liter
Density	1.10 ± 0.05 g/cm <sup>3</sup>
Melting Point / Freezing Point	< 32°F (0°C)
Boiling Point	> 212°F (100°C)
Flash Point	> 212°F (100°C)
Solubility	Fully miscible with water
Auto-ignition temperature	> 212°F (100°C)
Viscosity	2.8 ± 0.5 cP @ 68°F (20°C)

## APPLICATION INFORMATION

Coverage	~250 sq. ft. / gallon (~6m <sup>2</sup> /L), for each application
Application Temperature	41-95°F (5-35°C)
Substrate Application Temperature	41-95°F (5-35°C)
Application Conditions	Surface and air temperatures must be at least 41°F (5°C) during application and for 8 hours following. Temperatures should also not exceed 95°F (35°C). Do not apply by sprayer in windy conditions.

## ON-SITE FIELD TEST

To comprehensively assess ongoing deterioration and to identify essential stabilization and conservation needs, field and laboratory investigation is strongly advised. Variations in the composition and deterioration levels of building materials presents distinct challenges and demands, unique to each site and project.

For effective product evaluation, prepare a test area at the job site by cleaning it and allowing it to dry. The test should encompass as much space as possible, while faithfully representing the overall project condition.

Incorporate into the test area any prior repairs and patches, recognizing that varying surface compositions may yield differences in absorption and appearance. The test area validates application procedures in real job-site conditions and enables the calculation of consumption rates. Additionally, the on-site field test offers a tangible demonstration of the treatment's impact on actual project surfaces.

## APPLICATION INSTRUCTIONS

### EQUIPMENT

The preferred method of application is either HVLP sprayer or low-pressure pump spray. Paint brushes and rollers may be used for small-scale applications. Foam or synthetic brushes and rollers can be used with Repair Guard.

**NOTE: ON NEW BUILDING SURFACES AND INSTALLED REPAIR MATERIALS, ENSURE SUBSTRATE IS FULLY CURED PRIOR TO APPLICATION.**

### SURFACE PREPARATION

1. Wear protective gloves & gear before applying.
2. Protect vehicles, and surrounding surfaces not set for treatment.
3. All surfaces should be clean and dry, and free from dust, oil, grease, and other foreign matter, including paint/coating residues.
4. Surface sealers and water-repellents that have been previously applied must be thoroughly removed prior to applying Repair Guard.
5. Thoroughly clean surface using appropriate product and methods.
6. Ensure surface is completely dry prior to application.

**DO NOT DILUTE PRODUCT. SHAKE CONTAINER WELL BEFORE USE. LOAD PUMP SPRAYER OR PAINT TRAY AFTER MIXING WELL.**

### VERTICAL APPLICATION

#### SPRAYER:

1. Saturate from bottom up.
2. Apply enough for a 4-8in rundown below the spray contact point.
3. Allow surface to dry for 45-60 minutes, then proceed with a second application, following all instructions once again.

### **BRUSH / ROLLER:**

Only for small scale applications.

1. Apply uniformly and saturate the surface.
2. Let product penetrate for 5-10 min.
3. Brush out heavy runs and drips that do not penetrate.
4. Allow surface to dry for 45-60 minutes, then proceed with a second application, following all instructions once again.

### **HORIZONTAL APPLICATION**

1. Apply to saturate the surface. Do not over-apply.
2. Back roll any puddles thoroughly until they penetrate the surface.
3. Wipe up any excess material with a microfiber cloth.
4. Allow surface to dry for 45-60 minutes, then proceed with a second application, following all instructions once again.

### **ADDITIONAL COATS**

Coverage rates are contingent on the substrate's condition and extent of deterioration. Field testing is required to verify both the desired outcome and application procedures.

If additional coats are required, allow 45 to 60 minutes between coats.

### **SAFETY INFORMATION**

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Always read the product SDS for safety instructions and precautions before use. Use appropriate safety equipment and job-site controls during handling, application, and storage.

For further information regarding transportation, handling, storage and disposal of chemical products, users should refer to the SDS.

### **LIMITATIONS**

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- Minimum ambient and substrate temperature during application is 41°F (5°C); maximum is 95°F (35°C).
- Substrate must be dry prior to application.
- Always test on all substrates to ensure desired results.
- Do not apply at temperatures higher than 95°F (35°C). Higher temperatures cause evaporation, which may result in an uneven appearance.
- Do not apply Repair Guard to wet, damp, or frosted surfaces.
- Do not apply if rain is imminent within 8 hours of application.
- Not suitable for application to coated surfaces or surfaces previously treated with water repellents or liquid hardeners.
- Will not prevent water penetration through structural cracks, defects, or open joints.
- Repair Guard is not suitable for application to synthetic resin paints, gypsum, or other non-masonry surfaces.
- The product may not be suitable for surfaces to receive paints or coatings. Always test for compatibility.
- Not recommended for below-grade application.

### **WARRANTY**

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The information and recommendations provided are based on thorough research conducted by ourselves and others, and we believe them to be accurate. However, we do not guarantee complete accuracy because it is impossible to cover every potential application of our products or anticipate all variations that may occur in substrates, surfaces, job conditions, and application methods. It is the responsibility of purchasers to conduct their own tests to determine the suitability of our products for their specific purposes.

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