

GRAVEL GUARD™ ROCK & MULCH GLUE: PROFESSIONAL LANDSCAPING ADHESIVE

TECHNICAL DATA SHEET (TDS)

Description

Vital Coat® Gravel Guard™ Rock & Mulch Glue is a professional-grade, water-based landscape adhesive designed to stabilize mulch, decorative rock, gravel, pine straw, and soil. It dries clear, forms a flexible bond, and allows water and nutrients to pass through while helping prevent erosion, washout, and material displacement.

Environmental Profile

- Water-based, non-toxic formulation
- Non-flammable and safe for residential use
- Safe for use around plants

Primary Applications

- Mulch stabilization
- Decorative rock and gravel bonding
- Pine straw and wood chip control
- Erosion control on slopes
- Landscape beds and borders
- Pathways and walkways
- Residential and commercial landscaping

Features/Benefits

- Clear drying, invisible finish
- Water-based, low odor formula
- Flexible bond resists cracking
- Water permeable for plant health
- Easy spray application
- Reduces erosion and washout
- Improves curb appeal
- Reduces maintenance

Technical Information

Property	Result
Volume Solids % By Weight	Proprietary
Density (KG/L)	Mixed: 1.06
VOC Content	<25 g/L
Flash Point	Same as Water
Freezing Point	Liquid/ 32°F (0°C) – Keep from Freezing

System Properties

Property	Typical Value
Appearance	Milky Liquid
Odor	Mild
pH	Neutral to slightly acidic
Appearance	White Solution – Dries Clear

Packaging

This product is available in 1, 5 or 250 US Gal. containers

Storage/Shelf Life

Store in a cool, dry, well-ventilated area. Keep containers tightly closed and store away from heat, sparks, open flame or oxidizing materials. Extended storage at excessive temperatures may produce component separation and odorous fumes from product decomposition.

This product has a shelf life of up to one year in its original, sealed, unopened container. If product appears to be hardened or separated contact Vital Coat before use. Keep from extreme cold, heat or moisture. Keep out of direct sunlight. Keep out of reach from children.

Storage Temperature Min/Max 50°- 95°F

Directions for Use

1. Surface Preparation

Ensure mulch, rock, or gravel is dry and evenly spread. Recommended depth is 2–3 inches.

2. Initial Application

Apply Vital Coat Rock & Mulch Glue evenly using a pump sprayer.

3. Mix & Turn Material

Gently mix and turn the material to ensure a complete, even coating. This step improves surface contact and maximizes bonding strength.

4. Second Application (Primary Bond Coat)

This coat creates the primary surface bond and ensures uniform stabilization.

5. Cure Time

Allow the coating to dry for 24–48 hours depending on temperature and humidity.

6. Optional Finish Coat

Apply a second light top coat over the fully dried surface for added protection and durability (optional). This finishing coat enhances resistance to weather and wear.



Optimal Conditions at Application

Ambient Temperature	Above 50°F & Below 85°F*
Surface Temperature	82°-95°F*
Liquid Temperature	45°-95°F*

Note The indicated application temperature is optimum. Vital Coat® Gravel Guard™ Rock & Mulch Glue can be installed at temperatures lower and higher temperatures. Cure time are impacted by temperature. Cure times are reduced with heat and increased with colder temperatures.*

Dilution & Mixing Instruction

Vital Coat® Gravel Guard™ Rock & Mulch Glue is a concentrated product and must be reduced with water based on the application substrate and desired bond strength.

Mixing Guidelines

- Mix thoroughly before application
- Use clean water only
- Do not over-dilute beyond recommended ratios
- Apply immediately after mixing for best performance

Recommended Dilution Ratios:

Application Type	Product: Water Ratio	Notes:
Decorative Rock/Gravel	2:1	Maximum adhesion for rock, gravel, and high-movement areas
Mulch & Pine Straw	1:1	Standard application for most landscaping uses
Touch Ups	1:2	Ideal for refresh coats, maintenance, or low-traffic areas

Coverage rates may vary based on dilution ratio and material porosity. Stronger ratios provide increased durability and washout resistance. Always test on a small area prior to full application.

Coverage/Thickness

Bark Mulch/Wood Chips	200-300 ft ² /gal
Pine Straw	250-350 ft ² /gal
Decorative Rock/Gravel	150-250 ft ² /gal
Soil Stabilization	100-200 ft ² /gal

Note The indicated coverage varies depending on material type and porosity. Actual coverage may vary.*

Curing:

Do not touch treated surface during curing. Do not add water or allow water to come in contact while curing. Protect surface from debris coming in contact with surface while drying.



Drying/Cure Times

Pot Life	6 Months after opening @77° (25 C°)
Tack Free Time @77°F 50% RH	2 – 4 Hours
Min Recoat Time @77°F 50% RH	1 Hours
Full Cure	72 hours

Note Times are approximate and will be affected by changing ambient conditions, especially changes in temperature and relative humidity.*

Clean-up

Clean all application equipment with soap and water before product dries. Once the material hardens, it can only be removed mechanically. If the product splatters, wash thoroughly with soapy water.

Precautions/Limitations

- Before handling, consult the Safety Data Sheet and Container Labels for physical and health hazard information.
- Do not apply if rain is expected within curing window.
- Do not apply to saturated or frozen materials.
- Protect and cover items near treatment area to prevent overspray damage.
- Performance may vary in extreme weather conditions.
- Keep out of reach of children
- Avoid Contact with eyes

Health and Safety

Always wear proper safety equipment to protect eyes and skin. Keep a neat, clean mixing area to avoid potential safety issues. Make sure to refer, read and understand all SDS sheets and become familiar with all application procedures and best practices. In case of skin contact, wash with water and soap. In case of eye contact, immediately rinse with water for at least 15 minutes. Consult with a doctor. For respiratory problems, transport victim to fresh air. Remove contaminated clothes and clean before reuse. For more information, consult the material safety data sheet.

Important Notice

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