

ULTRA Thermo Reactive Sealer™

Overview

Thermo Reactive Sealer™ (TRS) is an aqueous fluorochemical solution that is a water-based penetrating sealer that provides a durable, non-film-forming, transparent, protective barrier against oil and water on porous surfaces such as stone, unglazed tile, grout, terracotta, concrete and brick. **TRS** provides excellent oil and water repellency, stain resistance, and ease of cleaning. **TRS** will extend the active life of these surfaces.

Application Procedures

Always test surfaces to be treated for porosity and product compatibility prior to application especially on dark surfaces. **TRS** can create a slightly wet/white surface sheen and absorbs within one minute; avoid puddling when applying - puddles should be immediately dispersed with a roller. **TRS** may be used in industrial, commercial and consumer applications, and can be applied using a brush, mop, roller, paint pad or spray applicator. See Safety Data Sheet (SDS) for use and handling recommendations. Surfaces need to be thoroughly cleaned with high pressure and hot water - using a power wash system, followed by a heavy rinse. Surface must be porous and free of loose dirt, oil, grease, mildew, paint and other coatings. Allow surface to dry. This can be aided by the use of an electric or gas air blower such as a leaf blower.

Applying TRS - After allowing surface to completely dry, **DO NOT DILUTE PRODUCT**. Thoroughly wet solution with **TRS** using a heavy nap roller or low pressure sprayer such as a pump up type sprayer. Then back roll with a clean roller pad. A second application is recommended to ensure complete coverage. For dense substrates, optimum performance can be achieved with the addition of 2-5% of isopropyl alcohol (IPA) or PnB glycol ether (Butyl). Area treated is ready for foot traffic within 2-4 hours and heavy traffic within 8-12 hours depending upon humidity and ambient temperature. It is recommended to apply this product when temperature is over 40 °F and under 100 °F.

Coverage - 300 sq. ft. to 600 sq. ft. per gallon depending upon porosity application and weather conditions.

Performance

In comparison to aqueous-based silicone sealers. Each product was applied to Limestone and to Saltillo (also known as Mexican clay tile, or terracotta) and allowed to dry for three days. Corn oil, Italian dressing, ketchup, mustard, grape juice, and coffee were then placed on the treated substrates. After 24 hours, the tiles were washed with a mild detergent solution and allowed to dry. The remaining stains were rated as follows: 0 = No stain, 1 = Very light stain, 2 = Light stain, 3 = Moderate stain, 4 = Heavy stain. The ratings were totaled for each tile sample.

The results below show that **TRS** outperformed the competitive aqueous-based silicone sealer. Similar results have been achieved on other stone substrates such as granite and marble.

Performance Comparison (Total Scores - The Higher the Score, the Heavier the Stain)

24 Hour Stain Scores

Treatment	Limestone	Saltillo
Thermo Reactive Sealer™	9	5
Silicone (aqueous)	13	8
Untreated	16	14

Treatment	Oil Repellency	Water Repellency	Stain Resistance
Thermo Reactive Sealer™	excellent	excellent	excellent
Silicone	poor	excellent	poor to good
Untreated	none	none	very poor



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ULTRA **Thermo Reactive Sealer™**

General Product Description		TRS - High Performing VOC Free Penetrating Sealer
Product Properties	Product Type	Anionic Dispersion
	Percent Solids	25
	pH	9-10
	Medium	Water
	VOC Content	VOC <0.1%
	Solubility	Water
Formulating Information and Applications	Formulation	Not suitable for low pH formulations (<6)
	Spray Options ***	Yes
	Main Advantage	Versatile, Durable, Acid Sensitive Surfaces
	Clay Brick	...
	Concrete and Grout	...
	Facade Concrete Rendering	...
	Granite	...
	Limestone	...
	Marble	...
	Saltillo/Terracotta	...
	Sandstone	...
	Slate	...
Stain Performance ***		BEST
Commercial Availability		Yes

*** Initial Stain performance and durability Suitability Scale

*** = Highly Recommended, ** = Recommended, * = Suitable



Warning:

Harmful if swallowed. Causes serious eye irritation. May cause respiratory irritation. Suspected of causing cancer (State of California).

Prevention:

Keep out of reach of children. Read label before use. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust / fume / gas / mist / vapors / spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well ventilated area. Wear eye protection / face protection. Use personal protective equipment as required.



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