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TECHNICAL INFORMATION & INSTALLATION

TOTALLY DEFEND - TDISE

Product:

Totally Defend - Impregnating Solvent Based colour Enhancing sealer (TDISE)

General:

TDISE is a high-performance impregnating sealer for use on all natural stone / masonry surfaces including concrete. The product is absorbed into the pores/capillaries of the material and due to its low molecular size can achieve strong penetration even on highly glossy surfaces. On application a number of reactions occur with the silicate substance in the material being treated, including the formation of a polysiloxane.

TDISE is not a topical sealer and therefore does not create a mechanical barrier to staining agents.

Properties:

- Creates a surface highly resistant to oil and water absorption.
- Significantly increases surface resistance to exposure of acidic contaminants (e.g., red wine, vinegar). Most resistance 2-6 hrs. following exposure.
- Is non-topical and allows surface to breathe / release humidity.
- Reduces adhesion of other substances to surfaces (e.g., Graffiti)
- Enhances colour of material being treated.
- Low VOC (does not release methanol during the reaction/curing process).
- Is not sticky/tacky following application or following reaction/curing process.
- Strong resistance to UV exposure.
- Suitable for internal and external use.
- Is invisible apart from colour enhancing properties.
- Food grade safe once cured.
- Enhances gloss level of surface being treated.
- Reduces slip co-efficient of floor being treated.

Range of applications:

TDISE is suitable for (but not limited to) use on the following materials:

- Concrete - both polished and un-polished.
- Natural stone - both polished and un-polished.
- Terrazzo.
- Artificial and engineered stone.
- Unglazed ceramic tiles.



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- Terracotta
- Tile joints.
- Bricks and Masonry.

Application Instructions:

- **It is advised that prior to use on any surface, a small test area should be prepared to observe effectiveness of impregnation, level of colour enhancement and coverage rate of material.**
 - Temperature range for optimal application 15-25 degrees and away from direct sunlight. Surfaces should not be hot from floor heating or direct sunlight.
1. Surface must be clean and totally dry prior to application.
 2. Apply once or twice to surface depending on level of material porosity. If applying twice, use wet-on-wet application method.
 3. Product can be applied using brush, microfiber applicator, roller or airless sprayer (solvent resistant with low pressure - max. 1 bar).
 4. Product should not be allowed to puddle with excess material being removed with a cloth.
 5. Polished surfaces will require buffing once dry to remove any residue.
 6. Product can be buffed as soon as it looks dry (normally 15-30 minutes following application).
 7. Water repellency properties should develop 4-6 hrs. following application.
 8. If being used in food areas, allow sufficient ventilation for 2-3 days.

Coverage Rates:

Expected coverage rates of the material will vary, depending on porosity of surface being treated and application method (e.g., roller compared to sprayer). As a general guide: 1L of TDISE per 10m² for porous surfaces or 30-50m² for polished surfaces.

General Considerations and Care:

- Sealer left to pool on surface and dry will leave darker patches.
- To maintain optimum protection, TDISE should be re-applied to surfaces every 3-5 years.
- Clean surfaces treated with TDISE with either water or neutral pH cleaning agents. Aggressive cleaning agents will considerably shorten life of sealer and protective properties.
- Longer term exposure of calcareous materials to acidic substances that have been treated with TDISE will still result in surface etching and staining. However, because the material has been treated with TDISE, any damage will be minimized and kept to a superficial level.



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- Not suitable for glazed or non-porous materials.
- TDISE is best stored in temperatures above 15 degrees Celsius. Below this temperature product may become cloudy. By heating product to above 25 degrees Celsius, cloudy appearance will disappear.
- When using TDISE, protect surrounding surfaces which are not resistant to solvents.

Shelf Life:

- Approximately 1 year if kept stored properly in its original container and kept free from frost.

Safety Measures:

- Consult Safety Data Sheet / MSDS prior to using material.
- TDISE does not present any health hazards when applied as per instructions in this document and precautions outlined in Safety Data Sheet.

Disclaimer:

All information presented in this document is based on experience gained from either WORX+ in-house testing and R&D or observations made by end users and reflects the best of our knowledge to date.

Due to the range of variables present and often unique to any given application environment, the information presented in this document along with other written or verbal information that may be supplied regarding this product, should be viewed as non-binding and a guide only.