

ShaliSeal PU (T)



Transparent Coating Based on Polyurethane Dispersion

Description

ShaliSeal PU (T) is a UV resistant, water based, invisible, protective coating that is suitable for all forms of natural stone, concrete and masonry. It protects against stains, discoloration, efflorescence and soiling. When applied on marble, brick, limestone and mortar joints, it will seal and reduce staining and water absorption. It can be used internally or externally without changing the aesthetic look of the surface & can be used for protection of concrete and other mineral facade surfaces.

Due to self-crosslinking polymers it gives very high resistance to alkaline substrates, protects the top coat of several coatings and gives very high efflorescence resistance.

Product Information

Form, Colour	Initial - Milky white liquid Cured appearance - Transparent
Handling & Storage	The material must be stored in a shaded area with no exposure to sunlight and UV. The containers should be protected from all sources of heat and ignition. Protect from freezing.
Packaging	Available in 1 kg 5 kg 20 kg packaging.
Shelf Life	12 months when stored in unopened sealed conditions away from heat and sunlight at 5 to 40°C.
Handling Precautions	The material is non-hazardous, non-flammable and therefore can be disposed of in any regular disposal areas. In case of contact with human skin wash with any soft solvents. Seek medical assistance immediately in case of any allergy.

Technical Characteristics @ 27 °C, 55 % RH

Drying time, mins	180 - 200	Elongation at break, % (ASTMD 2370)	450 ± 50
Solid Content, %	40 ± 5	Tensile Strength, N / mm ² (ASTMD 2370)	2.0 ± 0.3
Consistency	Runny Fluid	Theoretical Coverage, m ² / kg*	Brush Application 4.0 - 6.0
Service Temperature, °C	-30°C - +40°C	Spray Application	3.8 - 7.6
Resistance to weathering	Excellent	Density, gm / cc	1.03 ± 0.03
		Viscosity @ 30°C, cps	1800 ± 400
		pH	8 - 10

* Depending upon surface condition. Wastage during application has not been taken into consideration.

Field of Application

- Seals and protects natural stone.
- Suitable for use on natural stone including Indian sandstone, granite, slate and limestone.
- Ideal for use on paths, patios and block paving.
- Protection of concrete, mortar, masonry and other mineral facade surfaces.
- Internal and external use.

Advantages

- Protection of both internal and external surfaces.
- UV resistant, user friendly, washable and easy to apply.
- Smaller polymer particles penetrate deeply to provide excellent substrate adhesion.
- Easy to apply, no special tools required. Spray application is also possible.
- Water based and non-flammable.
- Solvent free, zero VOC.
- Protects from accidental spillage.
- Suitable for porous substrates with over coating.
- High resistance to alkali.
- Efflorescence resistant.
- Non tacky in short time.
- Reduces tendency to dirt pick up.
- Excellent water repellent.
- Very low water penetration into substrate.

Application Methodology

- Concrete surface must be clean and free of standing water. Remove any sealer or other material that may prevent absorption of the **ShaliSeal PU (T)**.
- Stir the material by electrical stirrer for 2 minutes.
- Allow cements, mortars and stucco to cure for 24 hours before applying sealer.
- Apply at a uniform coverage by spray or roller application. Product may be sprayed with a handheld "pump-up" sprayer or with an airless industrial sprayer.
- Apply second coat on demanding substrates after the first coat is tack free.
- When applying to masonry joints, the coating must be brushed well into the joints.
- Freshly applied coating must be protected from rain for at least 6 hours at +30 °C.
- Apply **ShaliSeal PU (T)** in one spray coat with low pressure sprayer, or roller, in a thin and even layer.

Precautions

- Dilution is totally prohibited.
- When applying, leave no dry spots in order to have homogenous performance. Touch up where necessary.

Value base of product data

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control and different test methods.

Health & Safety

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent **Material Safety Data Sheet**.

- Avoid contact with skin / eyes and avoid swallowing.
- Ensure adequate ventilation and avoid inhalation of vapour.
- Wear suitable protective clothing, gloves and eye protection.
- In case of skin contact, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent to clean the contacted area.
- In case of eye contact, wash with plenty of clean water and seek medical advice.
- If swallowed, seek medical attention immediately. Do not induce vomiting.

Cleaning & Maintenance

- Clean all tools immediately after use with water. Do not allow the material to harden.
- Ensure spraying equipment is cleaned thoroughly before use and residues of previous membranes are removed.



Product Range

- Waterproofing and Insulation ■ Road Surfacing
- Sealants and Additives ■ Pipeline Coating
- Protective / Anti-Corrosive Coating ■ Epoxy Flooring
- Grouts / Admixtures ■ RestoFix- Repair / Rehabilitation
- Other Construction Chemicals



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