T20P
WATERPROOF SEAL

epigen
Performance Resins & Composite Systems

TECHNICAL BULLETIN

T20P is an emulsion formulation based on poly functional oligomeric silane-siloxane compounds that penetrates, impregnates and chemically reacts with concrete and masonry to provide a water repellant surface.

Uses

T20P is ideal for treating floors, roof and floor tiles and pavers, bridges, marine structures, statues and buildings to lock out damaging water, salts and other contaminants. Practical protection against soil ingress, spalling and re bar corrosion by locking out water and harmful waterborne contaminants. T20P will not discolour or otherwise alter the appearance of concrete and masonry surfaces. T20P can be painted or overcoated, or used as a primer to improve adhesion of coatings in some instances.

Features

- Maximum Water repellency (hydrophobic)
- Negligible change in appearance
- Reduced soilage ingress and dirt deposition
- Water based environmentally friendly
- Reduces efflorescence and salt blooming
- Protects against chloride ingress
- Reduces water freeze damage
- Alkali stable
- Chemically bonds to substrata providing longer term durability
- Economical in use
- Improves house keeping & cleanability
- Recoatable with Epoxy and many other paints

Technical Overview

Colour: White Emulsion

Smell: None discernable

Colour on drying: Clear

Active Matter: 20%

pH: 11 – 12

Specific Gravity: 1.0

Solubility in Water: Infinite

Flash Point: None

Auto-ignition Temperature: None

Components: One

Application: Roller, brush, watering can or low pressure pump spray

Penetration Depth: >5mm

Coverage: 5 m2 / litre

Drying Time: 30 minutes

Initial Time to Waterproofing: 3 hours

Full Cure: 3 days

Note: Texture, absorption, and density of the surface determine penetration depth.
Coverage rate stated is a guide and will be subject to variations in texture, absorption, and density of the surface.

T20P
WATERPROOF SEAL

General Notes

T20P is to be used for water proofing mineral surfaces and also forms an excellent base for subsequent coating using architectural paints.
Impregnation depth of T20P depends on the porosity of the substrate and can be considerably increased by repeating a wet on wet impregnation several times.
Over time, surface soilage and contaminants may build up in the surface pores of the substrate. This can reduce the visual appearance of water beading but does not influence the functionality of T20P.
T20P is not designed as a standalone concrete sealer finish.
Application should not take place over wet surfaces or when inclement weather can wash away applied product.
Reduced effectiveness should be anticipated on unsound or cracked substrates.
Do not mix with water unless use of product will be carried out within 2 hours.

Additional Advantages

* Improvement in the adhesion of subsequent coatings.
* Reduction in water absorption
* Large priming depth
* Reduction in thermal conductivity and improved insulation
* Reduction in soluble salt blooming
* Reduction of dampness induced damage
* No impairment of masonry breathing

Technical Evaluation

Work conducted in Melbourne Research Centre in 2001 and 2002 determined that impregnation depth will vary with substrate porosity, substrates retained moisture, and application technique. When compared with traditional solvent bourne materials as well as other water based materials, the penetration depth of T20P exceeded the average of all materials assessed and did not suffer significant reductions in impregnation depth when the substrate had retained moisture. Average penetration depth was 5mm. Maximum penetration depth recorded was slightly greater than 10mm on a dry cement wood float finish.
The base T20P passed a basic compliance test according to TL/TP-OS A for the TV-SIB 90 carried out by the Institute for Bauforschung (Institute of Construction Research), Aachen (IBAC).

Surface Preparation

Surface cleanliness is critical to final performance and appearance.
All oil, grease, form release agents, and foreign materials should be removed prior to application.
New concrete, masonry, and restoration work can be treated within 24 hours of completion.

Application

Best results are achieved when the application is carried out between 3°C and 35°C.
Apply uniformly over entire area ensuring that if using broom, only the one pass is carried out, until dry.
If using spray or watering can, start at the highest point first and flood coat the surface. Overlap each pass to avoid gaps and areas of insufficient coverage.
Field trials have shown spray application can be carried out with good results using a 110°/1.5 tip at 50psi.
To ensure thorough treatment of the surface, several coats may be applied until the substrate no longer absorbs any further T20P.
Optimum results are achieved when surfaces to be treated are dry.

Cleanup

Clean up all tools and equipment with water

Packaging

20 litre

Safety

Refer to Material Safety Data
This product is not classified as a dangerous goods under the Transportations Regulations, nor is designated Hazardous to the criteria laid down by Worksafe Australia.

Warranty

The information contained in this data sheet, is to the best of our knowledge true and correct, but recommendations are made without guarantee, since conditions of use, transported, sorted, handled are beyond our control. Peerless Industrial Systems products must be used in accordance with the instructions on the relevant technical data sheets and packaging label. If this product fails to perform as specified, Peerless Industrial Systems will be limited to resupply of material or to provide a refund, neither of which shall exceed the purchase price of the product in question. Furthermore, nothing contained herein should be construed as a recommendation to use this product in conflict with existing patents

T20P:2002/June
rev03,2011/Sept

EPIGEN **PRODUCTS**
MANUFACTURED BY
Peerless Industrial Systems Pty Ltd

ABN 14 097 615 391
79 Robinson Ave, Belmont, WA 6104
PO Box 407, Cloverdale, WA 6985
Phone: (08) 9477 3788 Fax: (08) 9477 3766
Email: service@peerlessindustrialsystems.com
www.peerlessindustrialsystems.com
www.epigen.com.au