

Tredseal Resin

Anti-Slip Surfacing Bodycoat

Description

Tredseal Resin is a highly adaptable methacrylate resin surfacing system designed to provide an anti-slip wear resistant waterproof topping for concrete, steel and asphalt.

Advantages


- Ultra rapid set, can be trafficked in two hours
- Ease of application
- Decorative
- Tough, flexible and hard wearing
- Waterproof
- Application even at low temperatures

Applications

- Anti-skid surfacing for carriageways, bridge decks and platforms
- Ramps and traffic areas to multi-story car parks
- Walkways, footbridges and disabled access ramps

Technical information

Appearance	Filled pigmented resin
Usable Life	20-30 Minutes
Overcoating	45-75 Minutes
Trafficking Time	2 Hours
Elongation	>25%
Adhesion (Concrete & Asphalt)	>2.0 MPa Greater than substrate
Adhesion—Steel	>8 MPa

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Nufins, Kingston House, 3 Walton Road, Pattinson North, District 15, Washington, Tyne & Wear, NE38 8QA 13 0086-CPD-594215	
EN 1504-2 Surface protection system for concrete Coating	
Permeability to Water Vapour	Class 1
Capillary Absorption & Permeability to Water	$<0.1 \text{ kg/m}^2/\text{H}^{0.5}$
Adhesion	$\geq 1.5 \text{ MPa}$
Dangerous substances	Complies with 5.3

Tredseal Resin Coverage	
@1.5mm	2.7 kg/m ²
@2mm	3.6 kg/m ²
@2.5mm	4.5 kg/m ²
@3mm	5.4 kg/m ²

Note: Usable life and hardening times will vary with different temperatures.



Surface Preparation

Where the Tredseal System is to be installed the substrate shall be dry and free from ice/frost, oil/grease, curing compounds, shutter release oils, loose particles, moss/algae, laitance, friable matter, bitumen, asphalt and all other contaminants. The use of vacuum grit blasting to prepare the surface is recommended.

If necessary imperfections in the concrete surfaces shall be reinstated with a material compatible with the system, such as Nupatch Cosmetic.

The technical datasheet for Tredseal Primer contains full instruction for surface preparation and application.

Priming

Tredseal Primer can be applied by brush or roller or airless spray. Mix and use only full packs.

For brush or roller application, the two component parts are mixed together at a ratio of 1:1 by volume or weight ready for application. The coverage rate of the primer is between 0.2-0.4kg/m², depending on the porosity of the deck.

Ponding of the primer shall be avoided. Surplus primer shall be removed or evenly dispersed by brushing or rolling.

One application of primer is normally sufficient. The primer shall be fully cured, clean and free from loose debris, moisture and other contaminants before application of Tredseal Resin body coat.

If there will be an interval of more than 8 hours between priming and application of the Tredseal Resin, it is recommended to lightly sprinkle sand into the primer before it hardens (dried sand 0.2-0.7mm).

Curing time of the primer will depend upon amount of BPO catalyst used, temperature and site conditions, typically 30 – 60 minutes. The primer will accept foot traffic once it is cured, and where necessary will accept vehicular traffic with rubber tyres thereafter within one hour. However, to prevent unnecessary contamination vehicular traffic should be avoided.

Mixing

Tredseal Resin can be mixed either by slow speed drill and paddle or forced action mixer, depending upon size of application. To the material the hardener powder (BPO) is added on-site to the resin component and thoroughly mixed. The quantity of BPO added can be varied according to the ambient temperature, see below.

Temperature (°C)	Weight of BPO	Usable Life	Traffic Time
5	140g	80 Minutes	4 Hours
5	210g	51 Minutes	3.5 Hours
5	280g	40 Minutes	3 Hours
5	350g	33 Minutes	2.5 Hours
5-10	280g	40 Minutes	3 Hours
10-15	210g	35 Minutes	2.5 Hours
15-20	210g	30 Minutes	2.5 Hours
20-25	140g	20-30 Minutes	2 Hours
25-30	140g	20 Minutes	2 Hours
30-35	105g	15 Minutes	1.5 Hours

Application of Tredseal Resin

Tredseal Resin should be applied by squeegee to asphalt, concrete or steel surfaces (surfaces must be primed prior to the application). The resin should be layered to a thickness of between 2-3mm; coverage will depend on surface texture and should provide a minimum of 2mm cover over the high points in the surface texture.

Back roll using a spike roller to ensure even coverage and to provide a level surface. Whilst the Tredseal is still wet broadcast into the surface a suitably sized kiln dried aggregate. The aggregate should be applied to excess and the surplus removed by sweeping, once the resin has cured.

For foot traffic areas use 0.7-1.0mm grit and for vehicular traffic areas use 1.5-3.5mm grit. For decorative purposes or lane demarcation, coloured/pigmented grits may be used.

Sealer Coat

It is recommended, to maximise the service life of the Tredseal system that a coating of Tredseal Finish is applied to seal the surface. This improves Tredseals' abrasion resistance as well as providing a decorative finish to the system. Available in either a clear or pigmented versions Tredseal Finish is an integral component of the Tredseal system.

Packaging

Tredseal Resin;

Resin is available in 25kg units.

Aggregate (both sizes) is available in 25kg units.

Tredseal Primer;

Both primers are available in 5kg and 25kg units.

Tredseal Finish;

Resin is available in 5kg and 25kg units.

BPO powder is available in 25kg units and sachets.

Storage

Tredseal Resin is flammable. Due precautions should be taken when handling and storing this material.

The shelf life is 6 months when stored unopened in dry, normal conditions and away from direct sunlight. Protect from frost.

Health and Safety

Product Safety Data Sheets (SDS) are available from Nufins. SDS sheets are provided to help customers satisfy their safe handling, use and disposal needs as well as assist with any conformance requirements made locally by health and safety regulations.

SDS are continually updated to provide the very latest information to our customers. We therefore recommend contacting our head office to obtain the most recent and accurate SDS before handling and using any product.

Limitations

Substrate temperatures must be 3°C above the dew point.

Disclaimer

The information contained herein is to the best of our knowledge true and accurate and is given in good faith but without warranty. The user will be deemed to have satisfied themselves independently as to the suitability of our products for their own particular purpose. In no event shall Nufins be liable for consequential or incidental damages.

Users must always refer to the most recent issue of the Technical Datasheets, copies of which will be supplied on request.

Technical Support

Through our technical department and laboratories we can offer a comprehensive service to specifiers and contractors. Technical contacts are available to provide further information and arrange demonstrations.