

## Tredseal Primer

Primer for anti-slip wearing surface

### Description

Tredseal Primer is a low viscosity cold-curing 3-component methacrylate resin primer, with rapid curing properties.

### Advantages

- Rapid Curing
- Suitable to prime steel, concrete and asphalt surfaces.
- Deep penetration of substances.
- Reinforces surface strength.

### Technical information

Appearance		Clear liquid
Viscosity	DIN 53018	50-90 MPa
Outflow Time	DIN ISO 2431	50-70 s/4mm
Density	DIN 51757	1.0 g/cm <sup>3</sup>
Flash Point	DIN 51755	+10°C
Pot Life		20-30 mins
Overcoating		60-90 mins

### Surface Preparation

The areas to which the Tredseal System is to be installed 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

### Applying to Concrete

All concrete deck preparation shall be carried out to provide a sound substrate with an adhesion strength of at least 1.5MPa. Concrete surfaces should be free from laitance, which should be removed by either scarifying, wire brushing or preferably by high pressure water or sand blasting.

Blow holes or minor surface irregularities should be repaired using Nupatch Cosmetic. For larger irregular areas, a slurry coat made from a blend of Tredseal Primer and graded sands may be employed.



New concrete deck surfaces should be over 21 days old and have a U4 finish as a minimum, in accordance with specification for Highway Works, volume 1, clause 1708.4. Should the strength or the surface stability of the concrete base be in doubt, then we recommend a trial patch of Tredseal Primer be applied to assess its suitability.

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

### Applying to Asphalt

Asphalt surfaces should be sound, dry and brushed thoroughly prior to the application of Tredseal Primer. New asphalt should be aged before application.

### Applying to Steel

All surfaces should be free from rust and laitance prior to the application of the Tredseal Primer. The preferred method of removal is by vacuum grit blasting to an SA2.5 grade.

### Mixing

Use only full packs. Tredseal Primer is supplied in standard component Parts A and B of 5 and 25kgs units. Components Parts A & B are mixed in a ratio of 1:1

Before use, the hardener/catalyst powder (Benzoyl Peroxide, BPO) is added on-site to the component Part B and slowly stirred until thoroughly mixed, taking care not to entrain air into the mix. The amount added is calculated as a percentage of the weight of both parts A and B combined. The quantity of BPO in component Part B can be varied according to the ambient temperature, see below

Temperature (°C)	Spray applied	Brush applied
0 - 5	4% BPO	4% BPO
10	3% BPO	3% BPO
20	2.5% BPO	2% BPO
30	2%BPO	1.5% BPO

Component Part B with BPO added and mixed, will remain stable for 24 hours at 20°C if not immediately used.

Component Parts A & B are then either mixed together ready for hand application, or they are poured into pump-hoppers for spray application. Note: the primer will not be mixed until it reaches the spray gun.

## Application

The application of primer can be made by brush or roller and have a coverage rate of 0.2-0.4 m<sup>2</sup>/kg. Alternatively, airless spray equipment may be used, which pumps the two liquids to a mixer gun from which it is sprayed onto the substrate.

Normally one primer coat is sufficient. This should give a sheen finish to the concrete. However, on very porous concrete patchy areas may be observed where the concrete has absorbed all the primer. These areas will require a second coat. Should ponding occur, surplus primer shall be removed or evenly dispersed by brushing or rolling.

All tools and equipment must be cleaned immediately after use using Nuwash or Acetone.

## Packaging

Tredseal Primer is supplied as A and B components. The A & B components are both available as 5 and 25Kg units.

BPO powder is available in 25kg units and sachets.

## Storage

Tredseal Primer is flammable. Due precaution 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

When applying at high or low temperatures the BPO addition should be adjusted in accordance with the table below.

Temperature (°C)	BPO Addition*	Setting time
+5°C	2 kg	60 Minutes
+10°C	1.5 kg	30 Minutes
+20°C	1.25 kg	25 Minutes
+30°C	1 kg	20 Minutes

Based on addition to 50kg mix of components A & B.

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.