

Technical Datasheet

Tredseal Primer



Primer for anti-slip wearing surface

Description

Tredseal Primer is a low viscosity cold-curing 2-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/4 mm
Density	DIN 51757	1.0 g/cm ³
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 pull-off strength of at least 1.5 MPa. 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 28 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 0.2-0.7 mm).

Applying to Asphalt

Asphalt surfaces should be sound, dry and brushed thoroughly prior to the application of Tredseal Primer. New asphalt should be aged 28 days 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 SA 2.5 grade.

Mixing

Use only full packs. Tredseal Primer is supplied in standard 23 kg units.

Before use, the hardener/catalyst powder (Benzoyl Peroxide, BPO) is added on-site 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 Tredseal Primer, which should be varied according to the ambient temperature. See table below:

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

NOTE: The resin and BPO powder have a short pot life and will react vigorously in bulk and produce a large exotherm.



Application

Treadseal Primer can be applied by brush or roller and has a coverage rate of 0.2 - 0.4 kg/m².

Normally one coat is sufficient which should give a sheen finish to the concrete. However, on very porous concrete a second coat may be required.

Should ponding occur, surplus primer should be removed or evenly dispersed by brushing or rolling.

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

Packaging

Treadseal Primer is supplied as a single resin component in 23 kg packs.

BPO powder is available in 0.5 kg and 20 kg units.

Storage

Treadseal 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	BPO Addition*	Setting time
+5°C	0.9 kg	60 minutes
+10°C	0.7 kg	30 minutes
+20°C	0.6 kg	25 minutes
+30°C	0.5 kg	20 minutes

*Based on addition to 23 kg of Treadseal Primer.

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

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.