



THORPRIME

Anti-Slip System

Thorprime is a two component solvent free moisture tolerant epoxy resin priming system.

INTRODUCTION

Safety has never been more important and the public's awareness never so high. There is a clear need to both incorporate non-slip surfaces into capital works and to carry-out improvements to existing surfaces. Skid resistance is inevitably degraded by use particularly as a result of heavy vehicle movements and high shear forces on ramps, bends and approaches to junctions, etc.

Thorprime is a two component solvent free moisture tolerant epoxy resin priming system. It is used as a conventional epoxy primer to accept subsequent epoxy resin coatings, self-levelers and screeds. It is also used 'wet-on-wet' to bond to polymer reinforced cementitious screeds to base concrete slabs. Thorprime may be applied to green and damp concrete substrates and, after preparation, to surfaces they have been lightly contaminated with oil.

BENEFITS

Amongst the benefits:

- Solvent Free.
- Low viscosity – giving easy application.
- Excellent adhesion to a variety of substrates.
- Good "wetting out" and penetration properties.
- Low odour, suitable for use in food factories.
- Good curing performance at low temperatures.

SURFACE PREPARATION

Concrete Substrates must be clean, sound and free of any laitance and any other surface contamination that could impair adhesion.

Existing floor areas will require mechanical abrasion to reveal clean concrete. Enclosed vacuum blasting equipment or vonarx type scabblers should be used. Any areas, which have been significantly contaminated with oil or grease, should be treated with hot air compressed air blasting equipment. This will drive out any deep-seated contamination.

Any areas of damaged concrete should be broken out and reinstated. For small areas of thin section repairs – less than 10mm in depth – an epoxy resin repair mortar should be used. For larger area thicker section repairs a polymer reinforced cementitious repair mortar should be used.

Any cracks in the substrate in excess of 1mm wide should be chased out to a minimum width and depth of 5mm and repaired with an epoxy resin mortar. Finer cracks do not normally require pre-treatment, as they can be flooded with Thorprime.

Any existing floor coatings that are not soundly bonded to the substrate must be removed prior to the application of Thorprime.

Adhesion tests should be carried out to ensure compatibility with Thorprime.

For newly laid concrete substrates a light pass with enclosed vacuum blasting equipment is required. This is sometimes referred to as a 'flash' or 'brush' blasting, and will lightly texture the substrate and ensure that all laitance and the remnants of any curing membranes are removed.

Any flexible joints within the concrete substrates should be protected with masking tape. The perimeters of the area being treated, along with any grids, drains etc, should also be protected with masking tape.

Immediately prior to the application of the primer coat, the concrete substrate should be thoroughly vacuumed to remove all dust and other deleterious matter. Whilst the primer can be applied to a damp substrate there should be no standing water.

MIXING/APPLICATION/CURE

Thorprime is supplied in pre-weighed packages. It is essential that all of the curing agent, component A, is added to all of the resin, component B, and mixed thoroughly for 60 seconds using a mechanical paint stirrer. The fully blended system is immediately applied to the substrate by brush or roller at an average rate of 4-5m²/litre ensuring total coverage.

The primer should be worked thoroughly into damp substrates. This also applies to substrates that have been slightly contaminated with oil where a stiff brush should also be used. Damp substrates should be primed twice with the first coat blinded with sand. The second coat should be laid at 45° to the first coat.

When utilised as a primer for subsequent coating systems or self levellers, Thorprime must be allowed to cure to a tack-free finish. This will take approximately eight hours at 20°C. In order to optimise inter-coat adhesion, Thorprime must not be allowed to cure longer than 48 hours prior to over coating. If this time is exceeded, light abrasion and a second primer application will be required.

When utilised as a primer for polymer concrete or epoxy resin screeds, Thorprime should be over coated 'wet-on-wet'. Only prime areas that can be overscreeded within six hours. As above, if the primer cures tack-free, light abrasion and re-priming will be necessary.

PACKAGING / STORAGE

Solvent Free Primer is supplied in 4.50kg units. (Approximate coverage is 4 – 6m² per 1.0kg unit)

CLEANING

Tools can be cleaned with a hydrocarbon solvent such as xylene.

HEALTH & SAFETY

Refer to Health and Safety Data Sheets for each component of this product.

It is the customer's responsibility to ensure that this product is suitable for purpose. Results are not guaranteed as application conditions are beyond our control. Every care has however been taken in the compilation of this information.