

## Construction

## Chemical Supplies

## Eurogrip 3000

### Anti Skid Dressing

*Anti-skid surface coatings for roads, bridges, pedestrian crossings, car parks, ship's decks and areas where slip and skid resistance is important.*

### 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 can be degraded by constant use as a result of heavy vehicle movements and high shear forces on ramps, bends and approaches to junctions, etc.

The Eurogrip system combines tough but flexible polyurethane resins with highly abrasion resistant aggregate, calcined bauxite. Unlike many systems Eurogrip cures very quickly. Disruption is therefore minimal and a surface can be returned to full use in about 3 hours depending on temperature. It also cures at low temperatures, has excellent adhesion qualities and does not embrittle with age.

### BENEFITS

Amongst the benefits:

- Reduced braking distances, reducing the frequency of accidents
- Long service life compared with other similar systems
- Cold applied using mixer and squeegee
- No need to remove road markings
- Resistant to oils and solvents
- Minimal maintenance
- Minimal traffic disruption
- Suitable for a wide range of substrates (bitumen, concrete, timber, steel, etc)
- Low initial and whole life cost

### TYPICAL PROPERTIES OF BASE COAT

Relative density at 20 <sup>0</sup> C	1.6
Tensile properties to BS 2782 Pt3 after curing for 14 days in air	
Tensile strength	4.5 N/mm <sup>2</sup>
Elongation at break	60% min
Adhesion properties to BS 24624:1993, pull-off test at 5 days	
to timber	2 N/mm <sup>2</sup>
to concrete	2 N/mm <sup>2</sup>
to steel	5 N/mm <sup>2</sup>

### APPLICATION

Ambient and surface temperature should be between 5 and 30<sup>0</sup>C during application and cure. Dry weather conditions and a dry substrate are essential.

For low temperature application or application onto a ramp or steeply sloping surface refer manufacturer (Winter and thixotropic grades are also available)

For other non-ferrous metals refer manufacturer

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SUBSTRATE	PREPARATION	PRIMING
<b>CONCRETE</b>	Concrete surfaces must be at least <b>30 days old</b> . Remove all contamination and detritus including oils and greases, laitance, algae, moss, etc. Lightly texture the surface by vacuum blasting and/or other mechanical means, remove residue by vacuum. Deep oil contamination to be removed using hot compressed air. Existing thermoplastic markings to be removed or worked around. <b>Dry thoroughly</b>	Apply Europrime CT and allow to cure tack free (on average 9hrs). Apply Eurogrip within 24hrs of tack free failing which the area must be reprimed. If left longer than 3 days the surface should also be lightly abraded.
<b>BITUMEN BOUND MATERIALS</b>	The surface must be in reasonable condition and of sufficient strength to accept the surfacing(must not soften at high temperatures), not excessively smooth*, rutted, cracked or subject to aggregate ravelling, etc. It must be at least <b>30 days old</b> and have a surface texture that will provide a good mechanical key eg/ SMA or open graded materials(refer Optus). Sand carpet or materials using high penetration bitumen are generally unsuitable as substrates. Remove all contamination including oils and greases. Existing thermoplastic markings to be removed or worked around. Sweep clean to remove all dust. Allow to <b>dry thoroughly</b> . *Depending on the condition of the surface it may require to be lightly textured.	No primer required
<b>TIMBER</b>	Timber must be <b>completely dry throughout</b> before considering treatment. Eurogrip should not be applied if there is any risk of water retention in the wood. Timber contaminated by oils and greases, etc is not suitable for treatment. Lightly sand and sweep/vacuum clean. Timber products should be sealed all round.	Apply Europrime CT and allow to cure tack free (on average 9hrs) Apply Eurogrip within 24hrs of tack free failing which the area must be reprimed. If left longer than 3 days the surface should also be lightly abraded.
<b>STEEL</b>	Remove all rust, mill scale and surface contamination by grit blasting and other mechanical means to a bright rust free surface (SA2½). Oil and grease contamination should be removed with a suitable cleaning fluid and the residue flushed off with water <b>Allow to dry thoroughly.</b>	Apply Europrime FM within 4 hrs of surface preparation. Allow to cure tack free (on average 2 hrs). Eurogrip should then be applied during the following 10 hrs failing which the area should be reprimed.

### SURFACING (BASE & AGGREGATE SCATTER)

Strict compliance with the mixing and laying procedure is critical - **mixing times must not be exceeded**.

Materials include Eurogrip which comes as 3 components. It is used in conjunction with the customer's chosen aggregate.

Pour the contents of Pack B into a suitable mixing vessel and mix using a drill and paddle until homogeneous.

Whilst still mixing, add the contents of Pack A and continue mixing for a further 20secs. Whilst still mixing slowly add the contents of Pack C and continue for 40secs until a homogeneous mixture is achieved. Mix only one unit at a time.

Pour the mixed material onto the surface and immediately spread using a serrated squeegee -do not spread too thinly (refer coverage rates). No areas of the substrate should show through.

Broadcast the chosen aggregate onto the surface ensuring that there is no resin showing through. Remove any tape when resin starts to gel and excess aggregate after the surface has become stable. This will vary with both product and ambient temperature.

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#### COVERAGE/CURE

Both coverage and cure depend on ambient and surface temperatures, the type and condition of the substrate and the aggregate temperature and size.

Eurogrip must be laid to the following coverages: -

Foot traffic	2.0 to 2.5kg/m <sup>2</sup> (av 10.2m <sup>2</sup> /unit)
Vehicle traffic	2.5 to 3.0kg/m <sup>2</sup> (av 8.4m <sup>2</sup> /unit)

Aggregate loading varies with the chosen aggregate size and type. Typically: -

Foot traffic	5kg/m <sup>2</sup> (0.9 to 1.4mm agg)
Vehicle traffic	9kg/m <sup>2</sup> (1 to 3mm agg)

Nb/ always ensure that there is always excess aggregate available on site to ensure full coverage prior to sweeping.

Aggregate is available in a range of natural colours and sizes and in more vivid colours as coated aggregates.

Curing times: - Initial set @ 20<sup>0</sup>C      1 hour  
Open to traffic @ 20<sup>0</sup>C      3 hours

#### PACKAGING / STORAGE

Eurogrip is supplied in 23 kg units and in 3 components. Packaging is 3ltr pot (pack A), 10ltr pot (pack B) and 10kg bag (pack C). A composite pack is also available including a large outer pot which can be used for mixing.

All components should be stored in dry conditions.

#### HEALTH & SAFETY

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

Construction Chemical Supplies endeavours to ensure that the above data and any further advice is correct, however, it cannot accept any direct or indirect liability for the use of its products as such usage is beyond its control.

