

EuroGrip 4500 Technical Data

DESCRIPTION

Eurogrip 4500 A high friction surface coatings for heavy duty applications.

APPLICATION PROCEDURE

Ambient temperature should be between 5°C and 30°C during application and cure. Dry weather conditions and a dry substrate are essential.

For low temperature application or application onto a steeply sloping surface refer to manufacturer.

Surface preparation

SUBSTRATE	PREPARATION	PRIMING
CONCRETE	Concrete surfaces must be at least 30 days old or with more than 5% moisture content. Remove all contamination and detritus including oils and greases, laitance, algae, moss, road salt, loose material, 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. Dry thoroughly	Apply Europrime CT and allow to cure tack free (between 2 & 3 hrs depending on temperature and humidity). Apply Eurogrip 4500 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.
BITUMEN BOUND MATERIALS	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 30 days old and have a surface texture that will provide a good mechanical key e.g. / 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, road salt, loose material, etc. Existing thermoplastic markings to be removed or worked around. Sweep clean to remove all dust. Allow to dry thoroughly . *Depending on the condition of the surface it may require to be lightly textured.	No primer required
TIMBER	Timber must be completely dry throughout before considering treatment. Eurogrip 4500 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. If possible timber should be sealed all round.	Apply Europrime CT and allow to cure tack free (between 2 and 3 hrs depending on temp and humidity). Apply Eurogrip 4500 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.
STEEL	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 Allow to dry thoroughly.	Apply Europrime FM within 4 hrs of surface preparation. Allow to cure tack free (2–3hrs depending on temp and humidity). Eurogrip 4500 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 4500 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 to the specified coverage (do not spread too thinly).

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 when the surface becomes stable. This will vary with both product and ambient temperature.

COVERAGE AND CURE

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

Coverage of the resin base generally falls in the range of 4 to 5kg/m². Onto open graded bitumen based substrates coverage may be significantly reduced. In this event a scratch coat may be used.

Aggregate loading varies with the chosen aggregate size and type but is typically between 12 and 14kg/m²

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°C 1 hour
 Open to traffic @ 20°C 2½ hours

TYPICAL PROPERTIES

Relative density at 20°C	1.65
Tensile properties to BS 2782 Pt3 after curing for 14 days in air	
Tensile strength	10 N/mm ²
Elongation at break	20% min
Adhesion to steel to BS 24624:1993, pull-off test at 5 days	5 N/mm ²

PACKAGING

Eurogrip 4500 is supplied in 23 kg units and in 3 components. Packaging is 3ltr pot (pack A), 10ltr pot (pack B) and 12kg bag (pack C).

Aggregate is not included and must be purchased separately to the customer's specific requirements for anti-skid performance, colour and texture.

HEALTH AND SAFETY

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



Surface Maintenance systems

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