



EMCOL SKID RESIST

Description:

Emcol Skid Resist is a three component polyurethane based system which, in combination with an aggregate dressing, provides an extremely durable slip and skid resistant surface. Emcol Skid Resist is impervious, and is ideally suited to situations where a combined waterproofing / wearing course is required.

Emcol Skid Resist is applied onto carriageways in situations such as approaches to traffic lights, pedestrian crossings, roundabouts and steep gradients. Emcol Skid Resist is also applied onto the ramps and decks of multi-storey car parks.

At lower resin loadings, Emcol Skid Resist may be applied to pedestrian walkways, footbridges and underpasses.

Surface Preparation:

All surfaces to be treated must be free from any contamination that may impair adhesion, and be perfectly dry. Generally, mechanical abrasion is required to reveal a clean substrate.

Concrete

A combination of enclosed vacuum blasting equipment, and mechanical scabblers, mechanical wire brushes and pneumatic needle guns. Where the concrete has been exposed to oils, greases, fuels etc., it should be treated with hot compressed air to drive out the contaminants.

Steel

The steel should be grit-blasted to Swedish Standard SA2.5. Small areas may be prepared by disc abrading or mechanical wire brush cleaning.

Timber

The timber should be sanded down to reveal a clean, unblemished surface.

Asphalt

Ideally the asphalt should be prepared by enclosed vacuum blasting equipment. As a minimum, the surface should be vigorously brushed with a stiff-bristled broom, and any oil contamination removed with a suitable emulsifiable degreaser, which must be flushed away with clean water and the surface allowed to dry.

Priming:

Concrete and timber should be treated with Emcol Primer PR, a single component moisture curing polyurethane priming system applied by brush or roller at a rate of 6-10m² per litre, dependent upon the porosity of the substrate. Emcol Primer PR must not be over-coated with Emcol Skid Resist until it has cured to a tack-free finish. The cure time will normally be in the range 6-12 hours, depending on the ambient temperature. Emcol Primer PR should be over-coated with Emcol Skid Resist within 24 hours of curing tack-free. Should this time be exceeded re-priming will be necessary. Should longer than 72 hours elapse then re-abrading and re-priming will be necessary.

Steel should be treated with Emcol Primer SP, a single component moisture curing polyurethane priming system applied by brush or roller at a rate of 8-10m² per litre within 4 hours of being grit-blasted. Emcol Primer SP must not be over-coated with Emcol Skid Resist until it has cured to a tack-free finish. The cure time will normally be in the range 1-2 hours. Emcol Primer PR should be over-coated with Emcol Skid Resist within 12 hours of curing tack-free. Should this time be exceeded re-priming will be necessary.

Asphalt does not require the application of a primer.

Mixing / Application: Equipment required: a slow speed, high torque drill and mixing paddle, suitable power source and a 25 litre mixing vessel.

Emcol Skid Resist is a three component system supplied in pre-weighted packages. It is essential that all of Pack A, the curing agent, and all of Pack B, the resin component, are poured into the mixing vessel and blended together for 15-20 seconds. Pack C, the graded fillers, is then gradually added while mixing continues for an additional 30-40 seconds until a smooth, lump-free mix is produced.

Emcol Skid Resist reacts very rapidly to allow early opening to traffic and, consequently, has only a short pot-life, approximately 10 minutes at 20°C. Mixing times must not be exceeded, as over-mixing will reduce the system's pot-life and workability.

The blended material is then immediately poured onto the prepared surface and spread with a serrated squeegee at the specified coverage rate. The Emcol Skid Resist is allowed to self-level and the chosen anti-slip aggregate is then scattered over the resin to excess, ensuring no bare resin is visible through the aggregate dressing. After a minimum of 1 hour has elapsed the excess aggregate may be swept up and removed. Provided it has not been contaminated, this aggregate may be re-used.

At an ambient temperature of 20°C the site can be re-opened to full trafficking 2 hours following application.

The perimeter of the area to be treated, along with any grids or manholes, should be protected with masking tape. This tape must be removed within 20 minutes of the Emcol Skid Resist being applied.

Aggregate Dressing: The selection of aggregate dressings will be dependent upon several factors including the type, speed and degree of trafficking, any requirements for colour delineation, and aesthetic considerations.

The following table shows the types of aggregates most commonly specified for given situations:-

Site	Resin Loading	Aggregate Size	Aggregate Type	Residual Aggregate Loading
Footbridge Ramp and Walkways	2.3 - 2.5 kg/sq.m	1mm	Granite	4 - 6 kg/sq.m
Carriageway Approaches to Pedestrian Crossings	2.5 - 3.0 kg/sq.m	1 - 3mm	Calcined Bauxite	7 - 9 kg/sq.m

Packaging: Emcol Skid Resist is supplied in 25 kg and 12.5 kg composite packs.

Handling: See Safety Data Sheet for full details.

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Whilst every reasonable care has been taken to ensure the accuracy of the above data, it is provided for general guidance only. It is assumed that the purchasers are knowledgeable as to the use of products of this nature and will satisfy themselves as to the product's fitness for the intended purpose and the appropriate method of application. Consequently no guarantee is given nor liability assumed for the information provided or for any errors or omissions.