

Heavy duty, flow applied, lightweight anti-skid surface dressing

Uses

Durafloor V Anti-Skid provides a light weight, yet extremely hard wearing anti-skid surface to a variety of substrates including steel, concrete, asphalt and timber.

Ideally suited for foot and road bridges, Ro-Ro linkspans, helicopter decks, work platforms, ship decks, car parks, walkways, wet work industrial areas, etc.

Of particular importance is its use as an anti-skid road surface dressing at accident black spots.



Advantages

- Lightweight - important in design consideration of bridges and other structures
- Hard wearing - ability to withstand the heaviest wear
- Excellent adhesion to prepared steel surfaces and primed concrete substrates
- Smooth running surface - reduces wear and tear on vehicular traffic
- Slip resistant - excellent grip even when wet
- Chemically resistant to oils, grease, hydraulic fluids and many other chemicals
- Reduces aquaplaning on highway bridges
- Fast cure - foot traffic after 24 hours at 20°C



Description

Durafloor V Anti-Skid is a three component system based upon solvent free, strip pitch modified epoxy resins, amine curing agents and chemically inert, graded silica fillers which when mixed form a fluid, homogenous slurry.

Specially selected, hard wearing grit is broadcast onto the slurry whilst it is still wet to provide a lightweight, durable, anti-skid dressing which can be used on a variety of substrates including steel, concrete, timber and aluminium.

The components of Durafloor V Anti-Skid are supplied in pre-weighed quantities ready to use.

Properties

Pot life at 20°C:	60 minutes
Specific gravity:	1.31
Solvent content:	Nil% (solvent free)
Curing time at 20°C:	foot traffic after 24 hours vehicle traffic after 48 hours
Temperature limitations:	Recommended application range 10°C - 30°C. Consult Parchem if application or service temperatures are outside this range
Compressive strength:	50 MPa

Chemical Properties

Fully cured Durafloor V Anti-Skid has been shown to be resistant to the following chemicals after continuous immersion for 28 days at 23°C.

- Petrol
- De-icing salts
- Kerosene
- Aircraft fuel
- Diesel
- 10% urea in water
- Hydraulic fluids
- 75% salt
- 25% Nitric acid
- 25% Sulphuric acid

Design Criteria

Slurry

Thickness is varied to suit traffic conditions.

Light traffic:	3.0 - 3.5 mm
Medium traffic:	3.5 - 4.0 mm
Heavy traffic:	4.0 - 4.75 mm

Aggregate

“Gross” material use is the amount of aggregate applied to achieve a final “nett” coverage.

Light to heavy traffic	Material use (kg/m ²)	
	gross	nett
Durafloor Heavy Duty Aggregate	12	8

Specification Clause

Anti-skid surface dressing

The designated areas shall be surfaced with Durafloor V Anti-Skid, a heavy duty, flow applied material dressed with Durafloor Heavy Duty Aggregate. The topping shall be capable of accepting foot traffic at 24 hours and vehicular traffic at 48 hours.

Application Instructions

Surface preparation

Durafloor V Anti-Skid can be applied to a variety of substrates. As with all flooring materials or protective coatings, correct surface preparation is essential.

Steel substrates: Durafloor V Anti-Skid is specially formulated to exhibit tenacious adhesion to unprimed steel. However, all steel substrates should be blast cleaned to a minimum Sa 2 1/2 standard of cleanliness. An angular profile amplitude of at least 75 microns is recommended. The slurry should be applied as quickly as possible to the blasted steel surface. If the standard of the surface falls below Sa 2 1/2 then the steel must be reblasted.

Concrete substrates: Durafloor V Anti-Skid is applied to clean, sound, dry concrete substrates which are free of any laitance, or loose particles. Mechanical scarifying or blasting methods are strongly recommended. Prepared concrete substrates should be primed with Nitomortar 903, applied by lambswool roller to provide a thin even coverage. Avoid over application and puddles. Durafloor V Anti-Skid is applied onto the Nitomortar 903 whilst still wet/tacky.

Asphalt surfaces: Durafloor V Anti-Skid can be applied onto asphalt substrates providing they are clean, sound and dry. It is also recommended that the asphalt should be at least 3 months old. The asphalt should be lightly grit blasted to remove any weakly bonded or contaminated material to provide the desired surface. No primer is required on

asphalt.

Wooden substrates: Durafloor V Anti-Skid can be applied directly onto clean, dry timber substrates.

Aluminium substrates: Must be sweepblasted, and degreased using Solvent 10 to provide a sound mechanical key. Durafloor V Anti-Skid can be applied directly to the prepared substrate.

Mixing

Mix the two liquid components (A & B) thoroughly using a forced action mixer such as a cretangle. Add the mineral fillers and mix until a homogenous slurry consistency is formed. The total mixing operation should take about 5 - 7 minutes. The Durafloor V Anti-Skid is now ready to use.

Do not add thinners or solvent.

Durafloor V Anti-Skid Thickener can be mixed at this stage if material is going to be used on ramped surfaces to prevent material slumping.

Laying

Once mixed the Durafloor V Anti-Skid must be used within the specified pot life.

Pour the slurry onto the prepared surface. Work in lanes of 2 - 3 m width, masking off edges with tape. Spread the slurry using a steel trowel or squeegee taking particular care when joining up to previous days work. Use of a wet film gauge is recommended to ensure the correct thickness and material usage.

Durafloor Heavy Duty Aggregate must be applied immediately after laying Durafloor V Anti-Skid. The slurry coating is blinded to saturation by allowing the aggregate to fall vertically until no slurry is visible. Do not throw aggregate across the slurry as this may cause ridges. Masking tape must be removed before the coating has cured.

The Durafloor V Anti-Skid must be allowed to cure for 24 hours at 20°C before being subject to foot traffic. At lower temperatures this period will be increased.

Providing it is clean and dry, excess dressing aggregate can be removed and reused after the initial curing period.

Durafloor V Anti Skid Thickener can be added to the slurry prior to laying to help prevent the material slumping on ramped areas.

Cleaning

All tools can be cleaned immediately after use with Solvent 10.

Limitations

Durafloor V Anti-Skid should not be applied on to surfaces shown to or likely to suffer from rising damp conditions or have a relative humidity greater than 80%.

Durafloor V Anti-Skid should not be installed is ambient

Durafloor® V Anti Skid

temperatures are below 5°C or substrate temperature is less than 3°C above dewpoint.

Estimating

Supply

Durafloor V Anti-Skid is supplied as 16 L (21 kg) consisting of:

Slurry: binder (base and hardener): fillers:	8.4 kg packs 12.6 kg packs
Durafloor Heavy Duty Aggregate:	25 kg bags
Durafloor V Anti Skid Thickener:	1 litre tin
Nitomortar 903:	6 and 30 litre packs
Solvent 10:	4 and 20 litre drums

Coverage / slurry

Durafloor V Anti-Skid:	Thickness mm	Coverage kg/m ²
light traffic:	3.0 - 3.5	4.8 - 5.6
medium traffic:	3.5 - 4.0	5.6 - 6.4
heavy traffic:	4.0 - 4.75	6.4 - 7.6

Coverage / aggregate

Light to heavy traffic	Material use (kg/m ²)	
	gross	nett
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The coverage figures given are theoretical - due to wastage factors and the variety and nature of possible substrates, practical coverage figures will be reduced.

Shelf Life

Durafloor V Anti-Skid has a shelf life of 24 months if kept in a dry store in the original, unopened packs.

Storage

Store in dry conditions between 10°C and 30°C, away from sources of heat and naked flames, in the original, unopened packs. If stored at high temperatures the shelf life may be reduced.

Important notice

A Safety Data Sheet (SDS) and Technical Data Sheet (TDS) are available from the Parchem website or upon request from the nearest Parchem sales office. Read the SDS and TDS carefully prior to use as application or performance data may change from time to time. In emergency, contact any Poisons Information Centre (phone 13 11 26 within Australia) or a doctor for advice.

Product disclaimer

This Technical Data Sheet (TDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this TDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Parchem does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.



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