

PLASMET

Plasmet WR

Product reference: 5/25

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Product title: Plasmet WR

Valid from: 20th November 1991

Last reviewed: July 2019

Type

A solvent-free, three-pack polyamine cured epoxy containing high levels of abrasion resistant filler.

Suggested use

Plasmet WR should be used where abrasion resistance is a prime requirement. WR works well both in immersed and non-immersed environments, but has shown particularly good results in dry abrasion. Suggested areas of application are coal bunkers, pulverised fuel lines and ash handling systems.

Surface preparation

WR can be applied to decontaminated and wire brushed surfaces, however to obtain optimum adhesion the substrate should be grit blasted to ISO 8501-1 Sa 2½ or equivalent with 75 micron profile.

Application equipment

Prime Coat: Brush
Build Coat: Trowel or float
Glaze Coat: Brush.

Application

Remove approximately 2% of the resin and hardener and retain for use as the final glaze coat. Mix together the larger part of the base and hardener (98%) in a large container capable of holding all the aggregate.

Using a brush, prime the surface to be coated using the mixed base and hardener. Mix the required amount of aggregate with the base and hardener and apply the coating to the primed surface. For best results on vertical surfaces work should start from the bottom using a trowel or float and squeeze the material firmly on to the substrate, building upwards at all

times. Failure to use this method of application will inevitably result in droop and sag.

The product may be built up to any desired thickness in multiple coats, bearing in mind heat generation and hold-up characteristics. Larger thicknesses may be built by using meshing techniques; similar to those used in the building industry for rendering and plastering.

Allow the build coat to cure, then mix the remaining base and hardener together and apply as a glaze coat. Alternatively, Plasmet 'T' may be utilised as a top coat for this product.

Mixing ratio

Base: Hardener 100:64
Resin: Aggregate 15:85

NOTE: It is possible to obtain an increase in abrasion resistance by reducing the aggregate to resin loading to a ratio of 70:30. However, the vertical hold-up at this level is poor and therefore this ratio may only be used on flat or gently inclined surfaces.

Limitation

The coating may not be applied to overhanging surfaces without the use of retaining mesh.

Pot life

Variable with temperature and mass, but at 20°C approximately 2 hours.

Packaging

5 or 10 kg composite kits.

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Storage life

2 years minimum in unopened tins, stored at 5°C-40°C.

Colour availability

Grey.

Catalyst type

Polyamine.

Specific gravity

Mixed base & aggregate 1.93 gms/cc.

Chemical resistance

Good.

Abrasion resistance

Excellent.

Cleaning solvent

Xylene, Toluene, Methyl Ethyl Ketone or Acetone.

Theoretical spreading rate

0.17 m²/kg at 3mm dft.

Hold up

Up to 4mm per coat on vertical surfaces when applied in the correct manner.

Reviewed 10/2001
Reviewed 02/2014 (No changes)
Reviewed 10/2017 (No changes)
Revised 05/2018

All values are approximate. Physical data is based on the product being in good condition before polymerisation, correctly catalysed and full cure being attained. Unless otherwise stated, physical data is based on a test temperature of 20°C, test results may vary with temperature. Information regarding application of the product is available in the Corrocoat manual. Should further information be required, please consult Corrocoat Technical Services.