

**Product reference** 5/25

**Product title** Plasmet WR

**Valid from** 20th November 1991

### 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 Swedish standard SA 2½ with 75 micron profile.

### Application equipment

Prime coat: brush.  
Build coat: trowel or float.  
Glaze coat: brush.

### Application details

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 to hardener: 100:64.  
Resin to 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.

## Plasmet

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### Limitation

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

### Hold up

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

### Pot life

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

### Packaging

5 or 10 kg composite kits.

### Storage life

1 year minimum in unopened tins.

### Colour

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 m<sup>2</sup>/kg at 3mm DFT