

PLASMET

Plasmet AR3 Screed

Product reference: 5/38

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Product title: Plasmet AR3 Screed

Valid from: 27th June 2003

Last reviewed: July 2019

Type

A hardwearing, slip-free three-pack solvent free polyamine cured epoxy screed, resistant to strong concentrations of sulphuric and other acids.

Suggested use

As a hardwearing slip-free screed. Primarily for coping with strong concentrations of sulphuric acid, this product can also be used for other acids and in some strong alkali service duties. Applications include bund areas, tanks, pipe work, floors, decking, structural steel etc.

Health & safety

Before handling or using this product, the material safety data sheet should be read and all precautions observed.

Surface preparation

Metallic Substrates: The surface should be grit blasted to SSPC-SP10 (ISO 8501-1 Sa 2½) or equivalent, blast residues removed in accordance with normal surface preparation procedures. Plasmet AR3 should be used as a primer under the AR3 Screed. Over-coating times should be strictly adhered to except on the advice of Corrocoat Technical staff. It is essential that AR3 should be applied with stripe coating between each main coat to all weld edges and corners.

Concrete Substrates: Plasmet AR3 Screed resin and hardener should be used as the prime coat. Concrete to be prepared as per data sheet SP5.

Application equipment

Trowel, float or scraper.

Application

Plasmet AR3 is designed for applications over correctly primed substrates. Wet film thicknesses of between

4 and 8 mm per coat are recommended. Dependent upon environment and service conditions, total dry film thicknesses will be in the order of 5 to 8mm. Where required the Plasmet AR3 Screed resin and hardener may be used as a sealer over the applied screed.

Plasmet AR3 Screed should not be applied at ambient or substrate temperatures below 41°F (5°C). Surface temperature must be at least 37°F (3°C) above the dew point and RH above 85%.

Mixing ratio

Base 2:1 Activator
Aggregate 3:1 mixed base and hardener by weight

Mixing

Remove the lids from the base and the activator. Pour all the activator into the base and mix thoroughly. Ensure that no unmixed activator remains. It is essential that a power mixer is used to mix the base and activator. Once the mixture is completely homogenous, incorporate the aggregate as soon as possible and mix thoroughly.

Pot life

Approximately: 50 minutes at 68°F (20°C).
(Note this will vary with temperature, the temperature of the aggregate will have a dramatic effect on the pot-life of the mixed product.)

Overcoating time

No minimum value. Product may be re-applied as soon as the previous coat of AR3 has gelled sufficiently to support the

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weight of the next coat and logistics allow. Maximum value 60 Hours at 68°F (20°C). Exponentially shorter at higher temperatures.

Dry / Cure time

Tack-free time 5 hours at 68°F (20°C). Time to full cure 7 days. May be subjected to foot traffic after 24 hours.

Values will vary dependent upon to temperature. For optimum performance this product should be post cured prior to service.

Thinners

DO NOT USE SOLVENTS OR THINNERS WITH THIS PRODUCT. The use of solvents or thinners will dramatically reduce the performance in concentrated acids.

Storage life

2 years minimum in unopened tins, stored at 41-104°F (5-40°C).

Color availability

There may be some discoloration of the screed after contact with strong acid, discoloration will normally occur within a few days, but this does not affect the corrosion protection offered by the coating.

Volume solids

100% Polymerizable solvent free. Dry film thickness will vary from wet film thickness dependent upon cure conditions which affects ultimate density. It is advisable when calculating consumption figures to allow a minimum of 10% extra for this.

Theoretical spreading rate

1 sf per gal (0.2m²/litre) at 5mm DFT.

Practical coverage values vary dependent upon environmental and application conditions, surface profile, and geometry of work and operator technique. An appropriate loss factor must be taken into account. Corrocoat accepts no liability for any differences in calculated values or spreading rates obtained.

Specific gravity

Base: 1.18 gcm⁻³

Hardener: 1.10gcm⁻³

Mixed: 1.15 gcm⁻³ (resin and hardener)

Cleaning solvent

Xylene, Toluene, Corrocoat epoxy equipment cleaner.

Reviewed 02/2014 (No changes)
Reviewed 10/2017 (No changes)
Revised 05/2018
Revised 05/2019

All values are approximate. Physical data is based on the product being in good condition before polymerization, correctly catalyzed and full cure being attained. Unless otherwise stated, physical data is based on a test temperature of 68°F (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.