

CORROCOAT

Epoxy Polymer Concrete

Product reference: 3/75

Page 1 of 2

Product title: Epoxy Polymer Concrete

Valid from: 20 August 1996

Last reviewed: November 2022

Type

A 3-pack epoxy resin system, aggregate filled, to form an epoxy polymer concrete.

Suggested use

As a high strength corrosion resistant concrete substitute. For use at temperatures up to 212°F (100°C). May be used in both immersed and non-immersion service including chemical immersion. Can be used to repair existing damaged concrete or for surfacing.

Limitations

Applicable to horizontal surfaces only unless form work is used.

Health & safety

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

Surface preparation

Corrocoat Epoxy Polymer Concrete may be applied directly on to decontaminated and vacuumed concrete surfaces. The substrate should be free of standing water. For best results, the surface should be prepared in accordance with data sheet SP5 and primed with Plasmet ECP prior to application of the Epoxy Polymer Concrete.

Mixing ratio

9.5 parts Base: 4.75 parts Hardener: 85.75 parts aggregate (All by weight)

Mixing procedure

Mix the base and hardener and blend with a powered mixer. Split the aggregate into approximately three equal parts, add to the resin and mix thoroughly. For larger quantities, it may be necessary to remove from the container and manually mix using a board and shovel in a similar way to conventional concrete. Alternatively, a small concrete mixer may be used.

Application

Using a trowel as far as possible, work the unevenness within the surface. The product should then be applied to the desired film thickness using the trowel to achieve a smooth finish. Where possible, a vibrator should be used to release any trapped air and aid settlement of the product. For larger areas a tamping board and guide bars may be used in a similar way to conventional concrete. Mix only as much product as may be applied within the pot life of the product. The product may be applied to whatever film thicknesses are required, but due to the nature of this product, applications at film thicknesses below 10mm are not recommended.

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Pot life

80 minutes at 68°F (20°C). Pot life will be shorter at higher temperatures and longer at lower temperatures.

Thinners

DO NOT THIN. NO DILUENT OR THINNER MAY BE USED.

Packaging

This product is normally sold in 40 Gallon Kits with the base packaged in 2 x 5 gallon pails, the hardener in 1 x 5 gallon pail and the aggregate in a palletized super sack. With this packaging, the contractor uses a 9 cf concrete mixer to mix 40 gallon (1/5 CY) batches at a time. Alternatively, 2.5 gallon composite kits are available for use on smaller projects or in conjunction with the 40 gallon kits.

Storage life

24 months in unopened pails/ drums.

Colors

Brown/ gray

Overcoating

May take place as soon as the previous coat has gelled.

Specific Gravity

.083 lbs/cubic inch (2.3 gcm³) (2,300kg/m³)

Volume Solids

Greater than 99.9%

Theoretical Spreading Rate

3.2 sf / gallon at 1/2" (500 mils) thickness.

Cleaning solvent

Corrocoat Epoxy Equipment Cleaner

Reviewed 08/2016

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.