CORROCOAT Corrocoat EA

Product reference: 3/15

Product title: Corrocoat EA

Valid from: 30th December 1999

Last reviewed: May 2019

Type

A viscous, solvent-free, high build, two pack epoxy coating with excellent erosion resistance, toughness and outstanding anti-corrosive properties.

Suggested use

Ideally suited for brush application to areas that are to be subjected to seawater or other aqueous immersion. The coating also possesses resilience and good chemical resistance.

Limitations

The material does not adequately cure below 5°C. It may be applied at such temperatures, but a measure of post curing at 15°C or above will be necessary to achieve optimum properties.

Health & safety

Read Health and Safety Data Sheet before handling this material. Avoid contact with skin or eyes. Do not ingest. Wear protective clothing and goggles. Ventilate confined spaces. The base and activator materials are not particularly hazardous and are safe to use provided good hygiene and working practices are observed.

Surface preparation

For optimum performance under immersed conditions the product should be applied to surfaces, grit blasted to ISO 8501-1 Sa 2½ or equivalent. For full details refer to Corrocoat Surface Preparation SP1 or SP2.

Application equipment

Stiff brush or trowel.

Application

Two or more coats should be applied in coats of up to 1000 microns.

Mixing ratio

100pbw: 28.91 act.

Mixing procedure

The material is supplied in kits consisting of the base component (large tin) together with an appropriate amount of activator. An additional component, (Adhesion Promoter) can also be supplied. Mix the base and activator components thoroughly, until the material is homogenous in colour and consistency. Then immediately prior to application the Adhesion Promoter where used, should be added and mixed well.

Pot life

1 hour 45 mins at 20°C.

VOC level

0.12g per litre.

Theoretical spreading rate

0.9m² per litre at 1mm DFT.

Minimum overcoating times

As this product contains no solvent, minimum over-coating time is not important except in avoiding disruption and drag of the previous coating.

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Short overcoating times as opposed to long overcoating times, are recommended for optimum intercoat adhesion properties. In order to check that surface drag is not likely to occur, a finger or thumb, can be used to pull the surface and where movement is observed, a longer period should be allowed before overcoating. As a guide, minimum overcoating times will generally be as follows:

Temperature	Time
12°C	12 hours
20°C	10 hours
30°C	8 hours

Maximum overcoating

It is essential, to achieve intercoat adhesion, that the maximum over-coat times are strictly adhered to. These maximum overcoating times are as follows:

Temperature	Time
12°C	72 hours
20°C	48 hours
30°C	24 hours

Curing times

In order to achieve the full properties of this material, a period of 3 days at 20°C should be allowed, before service.

Where chemical or erosive forces are likely encountered, a period of 7 days cure, should be allowed. However, due to the cure action of this product, the coating can be put to light aqueous service, as soon as the product has gelled. This should generally be in accordance with the minimum overcoating time. Product will then continue to cure in service.

Time to achieve full cure

7 days at 20°C or 4 days at 30°C

NOTE: Cure below 10°C will be slow, exposure to higher temperatures (15°C-35°C) will improve the rapidity and degree of cure achieved. High humidity will extend cure times.

Thinners

The product should not require thinning. The use of solvent thinners can lead to solvent entrapment in the film, which will adversely affect performance.

Clean-up solvent

A blend of xylene/n-Butanol at 4:1 v/v may be used. Alternatively, any proprietary epoxy clean-up solvent may be used.

Storage life

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

Reviewed 10/2001 (No changes)
Reviewed 02/2014 (No changes)
Reviewed 05/2016 (No changes)
Revised 05/2018
Revised 05/2019

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.