T: (904) 268-4000 E: info-usa@corrocoat.com

CORROCOAT

CORROCOAT Heatblocka

Product reference: 3/47

Product title: Heatblocka

Valid from: 4th July 2007

Last reviewed: May 2019

Type

Two pack cold cured high build insulating coating.

Suggested use

As a durable coating in areas which require both insulation and corrosion protection

Health & safety

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

Chemical resistance

Refer to the chemical resistance list (200 series material). Affected by some highly polar solvents and some solutions having a high pH above 122°F (50°C).

Surface preparation

Metals: for best results abrasive blast to SSPC-SP10 (ISO standard 8501-1 Sa 2½) or equivalent. (For full details refer to Corrocoat Surface Preparation SP1.) For non-immersed environments Heatblocka may be applied over a surface which has been well prepared by wire brushing or needle gunning.

Concrete: Refer to Corrocoat SP5.

Application equipment

Airless pump of 45:1 ratio or greater. Fit leather **and** PTFE seal combination and remove all fluid filters. 10mm diameter (3/8") nylon lined hose with 6mm whip end, large bore gun with reverse clean spray tip. Typical tip size is 27 to 31thou with a 45° to 60° fan. Size of tip and fan angle will vary dependent upon the nature of the work.
Pressure to suit hose lengths and working conditions, (circa 200bar). (Do not use spray pressures above 275 bar).

Application by airless spray is recommended for optimum results, Heatblocka may be applied by brush or trowel.

Application

Dependent on intended use and site conditions, Heatblocka is normally applied direct to the surface wet on wet at films between 78-118 mils (2000-3000microns). **Single coat applications are acceptable.** Where logistics demand, primer PPA may be used or PPV for temperatures over 185°F (85°C).

Recommended DFT

Between 80-240 mils (2000-6000 microns) dependent upon duty and environment. To achieve the recommended DFT multiple coats may be required.

Mixing ratio / mixing

98:2 base to hardener. For inhibitor use refer to Corrocoat Technical Services; for mixing instructions refer to Polyglass Application Data Sheet. **Adding inhibitor after the catalyst will ruin the product.**

Pot life

Circa 50 minutes at 68°F (20°C) but may be varied by use of inhibitor or special manufacture for low application temperatures, refer to Polyglass Application Data Sheet.

Thinners

Thinning where required could be achieved by the addition of no more than .25 gal (1 litre) of styrene monomer per 5.25 gal (20 litres) of Heatblocka. It should be noted that dilution with styrene might **affect hold up** and chemical resistance. Do not add any other solvents for thinning.

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Last reviewed: May 2016

Packaging

1 Gallon and 5 Gallon Kits

Storage life

Base 12 months and catalyst (hardener) 6 months, stored at temperatures below 75°F (24°C), away from heat sources and out of direct sunlight. Frequent temperature cycling will shorten storage life. See 'other information' in the Corrocoat Technical Manual for extension of shelf life.

Color availability

Off White, other colors are available on request but the addition of dyes adversely affects chemical resistance and air inhibition suppressant is required for color stability.

Theoretical spreading rate

14 sf per gal (0.33m²/litre) at 3 mm.

Volume solids

This material contains volatile liquid convertible to solids. Volume solids obtained will vary dependent upon polymerization conditions. Nominally 99% of the product is convertible to solid.

Practical spreading rate

10 sf per gal (0.25 m²/litre) at 3mm.

NOTE: This information is given in good faith but **rate may vary significantly** dependent upon environmental conditions, the geometry, nature of work undertaken and the skill and care of application. Corrocoat accepts no responsibility for any deviation from this value.

Density

Heatblocka base: .02lbs/cubic inch (0.8 g/cm^3). Hardener: .04lbs/cubic inch (1.07 g/cm^3).

Catalyst type

Methyl Ethyl Ketone Peroxide, type P2.

Temperature limits

212°F (100°C) immersed. 482°F (250°C) non-immersed. No known lower limit. There may be some discolouration observed above 356°F (180°C).

Overcoating

It is important to observe maximum overcoating times and note these will vary substantially with climatic conditions. Minimum, as soon as gel has occurred and while still tacky. Maximum, at 68°F (20°C) 72 hours. Strong ultra- violet/sunlight will substantially reduce overcoating time. Take care to avoid contamination before application of subsequent coats. Ensure there is ventilation during cure.

Curing time

Full cure 3-4 days at 68°F (20°C).

Cleaning fluid

Methyl Ethyl Ketone, Methyl Iso Butyl Ketone - before gel.

Reviewed 07/2007 Revised 10/2010
Reviewed 02/2014 (No changes)
Reviewed 05/2016 (No changes)

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.