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

PLASMET

Plasmet R

Product reference: 5/07

Product title: Plasmet R

Valid from: 3rd February 2006

Last reviewed: May 2019

Type

A solventless chemically resistant two-pack epoxy repair and re-building compound. Plasmet 'R' is highly abrasion and wear resistant.

Suggested use

Re-building worn equipment. Replacing corroded and abraded metal, repairing valves, pumps and castings. Patching concrete and many other applications.

Health & safety

Warning: When using this product safety precautions should be observed. Avoid contact with skin or eyes. Do not ingest. Protective clothing and goggles must be worn. Read the Safety Data Sheet before use and observe all precautions.

Surface preparation

Surfaces should be dry and free from oil, grease and other contaminants. Where possible surface should be roughened to provide suitable key. For optimum adhesion and performance surfaces should be abrasive blasted before application to SSPC-SP10 (ISO 8501-1 Sa 2½) or equivalent with a 3 mil (75 micron) profile in accordance with data sheet SP1.

Application equipment

Trowel, putty knife, float, stiff short haired brush or any other suitable tool.

Application

Apply to surface building to the desired thickness.

Mixing ratio / mixing

2:1 Base to activator by weight.

Remove lids from both components A-Activator and B-Base and scoop out all of component 'A' putting into component 'B'. Mix thoroughly ensuring that no unmixed material remains. Remove all mixed material from base tin and remix on a clean flat surface or shallow receptacle. The material remains usable for a limited period after mixing, dependent upon temperature, after which time application becomes difficult. Product should not be applied at temperatures below 41°F (5ºC).

Pot life

Variable with temperature and mass, but approximately:

68°F (20°C): 70-90 minutes
86°F (30°C): 50-70 minutes
95°F (35°C): 40-50 minutes

Packaging

1 and 5 gallon kits

Storage life

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

Color Availability

Dark grey

Specific gravity

0.05lbs/cubic inch (1.3 gms/cc).

Flash point

In excess of 212°F (100°C)

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Catalyst type

Modified clyclo-aliphatic/aliphatic amine.

Chemical resistance

Good.

Abrasion resistance

Excellent.

Mechanical strength

Excellent.

Cleaning solvent

Xylene, Toluene, Methyl Ethyl Ketone.

Cure time

Variable dependent upon film thickness and temperature, but at 68°F (20°C) tack free 6-7 hours and full cure 4-5 days. However, material may be usable in service before full cure is attained.

Should a second application of Plasmet 'R' be required, this should take place within the over coating times specified below.

Overcoating

Plasmet 'R' should be over coated either with itself or Plasmet 'T' within the following time periods:

Ambient temperature

40-50°F (5-10°C) Minimum 24 hours, maximum 36 hours.

50-77°F (10-25°C) Minimum 7 hours, maximum 18 hours

77-95°F (25-35°C) Minimum 3 hours, maximum 12 hours

At low temperatures and high humidity, amine bloom may occur, evidenced by a dull greenish tinge on the surface. Where this occurs the bloom must be removed by abrading the surface before over coating is carried out.

Reviewed 02/2006
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 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.

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