

Plasmet

Product reference 5/09

Product title Plasmet T

Valid from 3rd February 2006

Type

A solvent free, two-pack smooth surfacing material with good chemical resistance.

Suggested use

Overcoating Plasmet R to give smooth surface finish, but can be applied directly to metal surfaces where re-building is not required. May cast be ground to give excellent surface finish for use in sealing areas.

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 should be worn. Read safety data sheet before use.

Surface preparation

Surface should be free from oil, grease and other contaminants. It should also be roughened to provide a suitable key, where possible, for optimum performance and adhesion. Surfaces should be abrasive blasted before application of Plasmet R to Swedish Standard SA 2½ with 75 micron profile in accordance with data sheet SP1. Surfaces should be dry.

Application equipment

Brush, trowel or other suitable implement.

Application

Plasmet T should be applied thinly enough to avoid runs or sags in the coating.

Mixing ratio

2.5 to 1 base to activator by weight.

Mixing

Pour all of component 'A' into component 'B' and mix thoroughly. The material is now ready for use and should be applied as soon as possible. Product should not be applied at temperatures below 5°C.

Pot life

Variable with temperature and mass, but approximately:
20°C: 50-60 minutes.
30°C: 40-45 minutes.
35°C: 30-35 minutes.

Packaging

0.5kg, 1kg and 5kg.

Storage life

1 year minimum, unopened tins.

Colour

Black.

Specific gravity

1.2 gms/cc.

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Flash point

In excess of 100°C.

Catalyst type

Modified cyclo-aliphatic/aliphatic amine.

Chemical resistance

Good.

Abrasion resistance

Good.

Mechanical strength

High.

Cleaning solvent

Xylene, toluene, methyl ethyl ketone.

Cure time

Variable dependent upon film thickness and temperature, but at 20°C tack free 8-9 hours and full cure 4-5 days. However, material may be usable in service before full cure is attained. Post cure at temperatures up to 100°C will speed cure, improve hardness and aid machining, see below.

Should a second application of Plasmet T be required, this should take place within the overcoating times specified below.

Overcoating

Where more than one coat is required, Plasmet T should be overcoated with itself within the following time periods:

Ambient temperatures

0°C to 10°C - minimum 24 hours, maximum 36 hours.

10°C to 25°C - minimum 7 hours, maximum 18 hours

25°C to 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 overcoating is carried out.

The cold cured properties of this material may be improved by post curing. This can be achieved by first allowing cure at ambient temperature for a minimum of 6 hours, then applying heat at 80°C to 100°C for periods up to 24 hours, at which time maximum possible cure will have been attained.

Information regarding application of the product is available in the Corrocoat manual. Should further information be required, please consult Corrocoat Technical Services. Physical data is based on the product being in good condition before polymerisation, correctly catalysed and full cure being attained. Information regarding application of the product is available in the Corrocoat manual. Should further information be required, please consult Corrocoat Technical Services.