



american coating technologies
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AM 3910 Metal Repairs with Extended Working Time

Product Description

A two-component 100% solids epoxy Novolac for general use as a paste-grade product for steel that provides excellent chemical resistance to a wide range of petrochemical products, fuels, organic / inorganic acids & alkalis. Highly cross-linked network provides high heat resistance. For use on all types of metal repair like pump shafts, pumps, damaged flanges, worn bearings, valve casing where extended working time is required.

Adhesion Strength:

ASTM D 4541 2,500 PSI

Abrasion Resistance:

ASTM D 4060 CS17 WHEEL
1000 CYCLES 1 KG 40 MG

Rockwell Hardness:

ASTM D 2240 80

Compression Strength:

ASTM D695 16,000 PSI

Flexural Strength:

D 790 13,000 PSI

Tensile Shear Strength:

ASTM D 1002 3,500 PSI

Volume Solids:

100%

Recommended DFT:

60–250 mils (1.50 – 6.35 mm)

Mix Ratio:

1A:1B by volume

Pot Life (25°C):

30 minutes in 8 fl oz mass

CURE TIME :

Temperature To Touch:

25°C (75°F) 3–4 hrs
38°C (100°F) 2–3 hrs

Temperature To Handle:

25°C (75°F) 8–10 hrs
38°C (100°F) 6–8 hrs

Temperature To Immersion:

25°C (75°F) 5–7 days
38°C (100°F) 3–5 days

ADHESION 1500 – 2500 psi on grit-blasted steel, 5 days ambient (1.5 – 2.0 mm DFT) cure followed by 6-day immersion in 70°C water.

TEMPERATURE (Dry) Continuous 149°C (300°F)
RESISTANCE (Dry) Intermittent 176°C (349°F)

SHORE D HARDNESS, 80 – 83
(24 hrs @ 25°C) 12 – 18 cm³ cured compound 83 – 88 (72 hrs @ 25°C)

GLASS TRANSITION 52 – 56°C
(3 days ambient cure)
TEMPERATURE 68 – 72°C (121°C for 2 hrs)

Surface Preparation

Must be free of oils, greases and other forms of contamination to maximize adhesion. White metal blast with angular anchor profile of 3 – 5 mils is recommended.

Safety

Mixes and applications of this product present a number of hazards. Read and follow the hazard information, precautions and first aid directions on the individual product labels and material safety data sheets before using.

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