

ProTXcoat 312

Highly Chemical Resistant Epoxy Novolac

312 is a high performance solvent free coating designed for use where exceptional resistance to chemical attack is required.

312 is based on a special epoxy novolac resin and a polyamine curing agent system which produces a highly cross linked polymer network. This unique system prevents permeation and subsequent attack of the coating by highly aggressive chemicals, allowing the system to be used whenever superior chemical resistance is required. Before proceeding, please read the following information carefully to ensure that the correct application procedure is fully understood.

312 offers excellent adhesion to steel and concrete, has outstanding resistance to a wide range of industrial chemicals even under total immersion conditions and is ideal for tanks, pipework, containment dykes, bund areas, desulphurization units.

SURFACE PREPARATION

Steel Surfaces - All surfaces to be coated should be abrasive blast cleaned to a minimum Sa2½- Sa3 in accordance with BS7079 Part A1:1989 or equivalent with a blast profile of 75-125 microns corresponding to 'Medium' in accordance with BS7079 Part C3 / ISO 8503 / 1. All loose abrasive dust and debris must be blown clear or vacuum cleaned away. Steel surfaces do not require priming but should be coated within 4 hours of blast cleaning to prevent rash rusting.

Concrete Surfaces - All concrete to be coated should either be lightly abrasive blast cleaned using wet or dry abrasive techniques or alternatively high pressure water jetting. Care must be taken not to expose the aggregate in the concrete. All dust and abrasive material shall be removed from the surface prior to coating.

MIXING

312 is a two component material comprising base and activator components which must be mixed together prior to use.

Stir the contents of the base component, continue stirring and gradually add the total contents of the activator container, stir the combined mix until completely homogenous.

The mixed materials should be used within 25-30 minutes of mixing at 20°C (68°F). This time will be reduced at higher temperatures and extended at lower temperatures.

APPLICATION

312 Application should not be carried out at temperatures below 5°C nor when relative humidity exceeds 85% or when the surface to be coated is less than 3°C below the dew point.

Best application results are obtained at a minimum substrate and product temperature of 20°C. For optimum chemical resistance, the system must be applied and cured at a minimum temperature of 20°C for at least 7 days prior to return to service.

312 is suitable for application by brush or roller, using good quality brushes or short to medium pile rollers.

312 into the primed surface to ensure good wetting of the surface.

Coverage Rate

1.89sqm per kg at 400 microns

Detailed working recommendations are available from the Technical Centre on request.

PHYSICAL CONSTANTS

| | | |
|---|---|------------------|
| Mixing Ratio | Base | Activator |
| | 3 | 1 Byvolume |
| Appearance | Base | Coloured liquid |
| | Activator | Amber fluid |
| Drying & Cure Times at 20°C (68°F) | Usable Life | 25minutes |
| | Initial Set | 6 hours |
| | Min Overcoat | 6 hours |
| | Max Overcoat | 8 hours |
| Volume Solids | 100% | |
| V.O.C. | Nil | |
| Shelf Life | Use within 5 years of purchase. Store in original sealed containers at temperatures between 5°C (40°F) and 30°C (86°F). | |

PHYSICAL PROPERTIES

Abrasion Resistance

60 mgm loss per 1000 cycles ASTM D 4060
-1 kg load-CS17 wheel

Dry Heat Resistance 177°C
(350°F) ASTM D2485

Water Vapour Permeability 4.69×10^{-6} perm.cm
ASTM D1653

Salt Fog Resistance Excellent, unaffected after
ASTM B117 10,000 hrs
exposure

Humidity Resistance Unaffected 5,000 hrs exposure BS
3900 Part F2

HEALTH & SAFETY

As long as normal good practice is observed **311** can be safely used.

Protective gloves should be worn during use.

A fully detailed **Safety Data Sheet** is either included with the material or is available on request.

PACKAGING

Supplied in 5kg and 20kg packs

The information provided in this Product Data Sheet is intended as a general guide only and should not be used for specification purposes. The information is given in good faith but we assume no responsibility for the use made of the product or this information because this is outside the control of the company. Users should determine the suitability of the product for their own particular purposes by their own tests.



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