



POLY-NOX

Single Component Water Based Anti-Corrosive and Encapsulation Coating

Thortex Poly- Nox is a high performance acrylic coating designed for use as a corrosion resistant and encapsulation system for metallic and cementitious surfaces.

Thortex Poly-Nox is based on a unique blend of flexible acrylic resins reinforced with inorganic fillers and pigments to produce a system with excellent elastomeric and corrosion resistant properties with optimum level of UV resistance, adhesion and durability.

Thortex Poly- Nox is simple and easy to use and can be applied to any surface and is ideal for the long term protection of tanks exteriors, steel structures, metal roofs, concrete and masonry structures.

Before proceeding, please read the following information carefully to ensure that the correct application procedure is fully understood.

SURFACE PREPARATION

All surfaces should be clean, dry and free from oils, grease, loose material, standing water and any other contaminants.

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.

Metal Surfaces: Should be prepared by mechanical wire brushing, grinding or high pressure water jetting (typically 3500psi) to achieve Swedish Standard St3 or equivalent, taking particular care when cleaning badly pitted surfaces.

Previously Coated Surfaces: Any loose/flaking material must be removed. Surfaces should then be thoroughly cleaned and abraded.

MIXING

Thortex Poly-Nox is a single component material and should only require stirring with a slow speed mechanical mixer prior to use to incorporate any slight separation.

APPLICATION

Application should not be carried out at temperatures below 7°C nor when relative humidity exceeds 85% or when the surfaces to be coated is less than 3°C above the dew point.

Thortex Poly-Nox can be applied by brush, roller or spray.

For brush application good quality stiff bristled brushes should be used.

For roller application medium to long pile rollers should be used.

Thortex Poly-Nox should be applied to achieve a minimum dry film thickness of 350 microns (14 mils) either as a single coat by spray or two coats by brush. For brush application the first coat should be allowed to dry to the touch (approximately 60 minutes depending on substrate and weather conditions) prior to the second coat being applied.

All equipment should be cleaned IMMEDIATELY after use with clean water, any stubborn deposits can be removed with **Thortex Universal Cleaner**.

Theoretical Coverage Rate

1.7 m²/litre at 350 microns dft (15 ft²/litre at 14 mils dft)

Typical Film Thickness

Wet 300 microns (12 mils) 585 microns (24 mils)

Dry 175 microns (7 mils) 350 microns (14 mils)

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

PHYSICAL CONSTANTS

Mixing Ratio Supplied ready for use.

Appearance Viscous Coloured Liquid.

Drying & Cure Times at

20°C/68°F	Touch Dry	60 minutes
	Minimum Overcoating	60 minutes
	Hard Dry	24 hours

NOTE: The above drying times are for good drying conditions. These times will be extended in cold, humid conditions with poor air movement.

Volume Solids 60%

V.O.C. Nil

Shelf Life Use within 2 years of purchase. Store in original sealed containers at temperatures between 5°C (40°F) and 30°C (86°F).
PROTECT FROM FROST

PHYSICAL PROPERTIES

Salt Fog Resistance (ASTM B117) Unaffected after 1000 hrs applied at 350 microns (14 mils) on grit blasted steel. Unaffected after 5000 hours applied at 350 microns (14 mils) over existing coatings.

Humidity Resistance (BS 3900 Part F2) No corrosion after 5000 hrs applied at 350 microns over existing coatings

Impact Resistance (ASTM D2794) >13.5.J. (120 ins.lbs)

Elongation (ASTM D412) 250% - This figure will increase at higher thicknesses.

Direct Pull Adhesion (ASTM D4541) 3.5 Mpa (500 psi) unexposed
>5.5 Mpa (800 psi) exposed

FOR FURTHER INFORMATION PLEASE CONTACT

HEALTH AND SAFETY

As long as normal good practice is observed **Thortex Poly-Nox** can be safely used.

When spraying **Thortex Poly-Nox** the use of vapour masks is advisable.

The use of protective gloves is advisable during use.

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

PACKAGING

Supplied in 20 litre units

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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