

Eurotaff Polyurea300 Primer (Zinc Phosphate)

Two component, self-levelling coating based on resins. Prepolymers (Isocyanate) + Polyols polyester, polyether, resin triol.

Eurotaff Polyurea 300 Zinc Phosphate primer is a fast setting, slow curing, 60% solids, flexible, aromatic, two component that can be applied to suitably prepared steel surface, and others metals as a corrosion inhibitor. Steel wastewater lining, marine bilge, pipeline coating, railways, oil & gas storage tanks and etc.

Advantages

- ❖ Environmentally friendly- 60% solids
- ❖ Manual applied or airless
- ❖ Excellent chemical resistance, thermal stability
- ❖ Slow turn-around time,
- ❖ Special for concrete
- ❖ Significantly enhances the durability of reinforced concrete
- ❖ Colour stability when coated with Eurotaff 500 aliphatic as a topcoat
- ❖ Can be applied at ambient temperature from 5° C to 40° C

Applications

- ❖ Multipurpose primer on many metal surfaces such as steel and Iron
- ❖ Primer for Eurotaff polyuria 300 Cold
- ❖ Primer for Hot polyuria Eurotaff AR
- ❖ Primer for Hot polyuria Eurotaff AR 50
- ❖ Primer for Eurotaff aliphatic 500 top coat

Physical properties at 23° c

Features	Standards	units
Adhesion to concrete	ASTM D4541	460 Psi
Adhesion to steel	ASTM D4541	2201 Psi
Adhesion to timber	ASTM D4541	320 Psi
Abrasion membrane	ISO 5470-1:1999	356 Gm
Durometer harness	ASTM D2240	Shore D 40
Tear strength	ASTM C1004	615 Pli
Tensile strength	UNE-EN ISO 527-3	16,5 Mpa
Flammability	Self-Extinguishing	Euroclase E
Water Vapour Transmission Speed	ISO 7783 Clase I	Sd>9 m
Not migration to Potable Water	EU98/93/CE	Able
Foot Contact, Soils Walls	EN 1186:1:2002	Able
Elongation	ASTM DA 12-92	50 %
Recommended Thickness	-	2 layer (100 microns)
Temperature resistant in asphaltic	-	140 8 hours

Instructions for application

Surface preparation

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All the surface must be clean, and in sound condition. Substrates should be clean and basically dry. This material will spray satisfactorily on cold substrates. Further, the substrate should be free of grease, oil, dirt or other contaminants that will interfere with proper adhesion and/or coating quality.

Steel: Steel surfaces should be degreased and grit blasted to SA2½ immediately prior to application. It is recommended that specifiers follow the guidelines for surface preparation from the data sheet for the primer selected. The primer surface must be free from grease, oil, dirt and other loosely adhering materials.

Concrete: Remove all laitance, form oil, curing compounds, grease and other surface contaminants. Apply diamond grind or light shot-blast to provide smooth profile. Remove all dust by vacuum cleaning. Fill any large voids exposed using Eurotaff polyurea 300 Primer with (0.0-0.2) mm silica sand. Cement based substrates should be at least 21 days old and moisture content should not exceed 5% before coating.

Substrate preparation guideline

Substrate	Environment	Preparation	1 st coat	2 nd coat
Steel	Immersive/ chemical	Blast (75-200)mic	100 microns Eurotaff 300 Primer zinc	2 mm Eurotaff AR
Steel	Abrasive	Blast (75-200)mic	100 microns Eurotaff 300 Primer zinc	2 mm Eurotaff AR
Concrete	Immersive/ Chemical	Blast (75-200)mic	200 microns Eurotaff 300 Primer	2 mm Eurotaff AR
Concrete	Abrasive	Blast (75-200)mic	200 microns Eurotaff 300 Primer	2 mm Eurotaff AR

Priming

To follow proper preparation, the substrate must be primed. Sound and dry concrete and steel must be primed with **Eurotaff Primers**. For other surfaces consult Eurotaff. For concrete substrate, recommended consumption is 250 microns per m². For steel substrates, suggested rate is 150 mics per m². A broadcast of kiln-dried sand is recommended for optimum adhesion properties. The primer shall be allowed to become touch-dry prior to application of Eurotaff Polyurea AR.

Colour Stable Topcoat

If colour stability is required, a minimum 0,100 mm film of Eurotaff Polyurea 500 of the appropriate colour should be applied. Eurotaff Polyurea 500 Top coat should be applied to clean and dry Polyurea AR surface within 3/6 hours of application. For application exceeding 6 hours, surface should be recoated with Eurotaff Polyurea 300 and allowed to dry prior to application

Quality control criteria

The typical physical properties given above are derived from controlled laboratory testing of Eurotaff polyuria 300 Primer, applied in accordance with the Eurotaff Polyurea Method Statement. Results derived from testing field-applied samples may vary depending on:

- ❖ Equipment condition
- ❖ Product temperature
- ❖ Weather conditions
- ❖ Film thickness
- ❖ Age of tested sample

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Curing

Gel time	3 hours
Light Traffic	24 hours
Curing starts	48 hours
Total curing	14 days

Storage

Eurotaff polyurea 300 primer has a shelf life of 12 months if kept in a dry and clean warehouse. Air conditioned store between +20 C and +30 C in the original unopened containers. Any changes in colour have no negative effect on reactivity and physical properties of the coating.

Packaging and equipment:

❖	<u>Part A (Isocyanate/ non-hazardous) in 13 kg drum</u>
❖	<u>Part B (Polyol-amina/ hazardous) in 9 kg drum</u>
❖	<u>Airless machine or similar</u>
❖	<u>Manual roller</u>

Technical support

Eurotaff offers a comprehensive technical support service to specifiers, end users and contractors. Eurotaff is also able to offer on-site technical and laboratorial assistance, field based R&Ds and professional specification assistance whole around the world.