Eurotaff 500 Aliphatic Topcoat

Technical Applications of Elastomeric

Two component, aliphatic top coating based on resins, Prepolymers (Isocyanate) + Polyols polyester, polyether and amine

Eurotaff Polyurea 500 is cold applied, fast setting, slow curing, 70% solids, flexible, aliphatic, two-components that can be applied to suitably prepared surfaces such as concrete, metal, timber and etc. It is specially designed and developed for outdoor application where UV resistance and colour stability is demanded.

Advantages

- Environmentally friendly- 70% solids
- Manual applied or airless
- Excellent chemical resistance, thermal stability
- Slow turn-around time,
- Available in glassy and matte.
- Significantly enhances the durability of reinforced concrete
- Can be applied at ambient temperature from 5° C to 40° C

Applications

- Car park decks
- Corrosive and erosive environments
- Heavy duty environments
- Potable and wastewater treatment
- Oil & gas tank, reservoir and pipeline coating
- Load bearing application such as bridges and railway decks
- Tunnel lining

Physical properties at 23° c

Features	Standards	units
Adhesion to concrete	ASTM D4541	360 Psi
Adhesion to steel	ASTM D4541	1931 Psi
Adhesion to timber	ASTM D4541	330 Psi
Abrasion membrane	ISO 5470-1:1999	349 Gm
Durometer harness	ASTM D2240	Shore D 40-50
Tear strength	ASTM C1004	515 Pli
Tensile strength	UNE-EN ISO 527-3	14,5 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	30 %
Recommended Thickness	-	2 layer (50 microns)
Temperature resistant in asphaltic	-	113 8 hours

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Instructions for application

Surface preparation

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	1st coat	2nd coat	3rd coat
Steel	Immersive/ chemical	Blast (75-200)mic	100 microns Eurotaff 300 Primer zinc	2 mm Eurotaff 300	100 microns Eurotaff 500
Steel	Abrasive	Blast (75-200)mic	100 microns Eurotaff 300 Primer zinc	2 mm Eurotaff 300	100 microns Eurotaff 500
Concrete	Immersive/ Chemical	Blast (75-200)mic	200 microns Eurotaff 300 Primer	2 mm Eurotaff 300	100 microns Eurotaff 500
Concrete	Abrasive	Blast (75-200)mic	200 microns Eurotaff 300 Primer	2 mm Eurotaff 300	100 microns Eurotaff 500

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, suggested application thickness is 250 mics and for steel substrates suggested thickness is 150 mics. 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 300.

Quality control criteria

The typical physical properties given above are derived from controlled laboratory testing of Eurotaff 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	4 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:

- Part A (Isocyanate/ non-hazardous) in 5 kg drum
- Part B (Polyol-amina/ hazardous) in 10 kg drum
- Airless machine or similar
- Manual roller

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.

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