

# Eurotaff 300 Primer (Zinc Phosphate)

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

Eurotaff 300 Zinc Phosphate primer is a fast setting, slow curing, 60% solids, flexible, aromatic, two component cold polyurea coating system 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           |

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## Instructions for application

### Surface preparation

All surface must be clean, free from dirt, debris and in sound condition. Eurotaff 300 primer zinc should be sprayed satisfactorily on a cold substrates. Further, the substrate should be free of grease, oil, dirt or other contaminants that will interfere with proper adhesion.

**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 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 <sup>st</sup> coat/m <sup>2</sup>  | 2 <sup>nd</sup> coat/m <sup>2</sup> |
|-----------|---------------------|-------------------|--------------------------------------|-------------------------------------|
| 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

For proper bonding, 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 m<sup>2</sup>. For steel substrates, suggested rate is 100 mics per m<sup>2</sup>. 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 AR.

### Colour Stable Topcoat

If colour stability is required, a minimum 0,100 mm film of Eurotaff 500 of the appropriate colour should be applied. Eurotaff 500 Top coat should be applied to clean and dry surface within 3/6 hours of application. For application exceeding 6 hours, surface should be recoated with Eurotaff 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 300 Primer, applied in accordance with the Eurotaff 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 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 13 kg can
- ❖ Part B (Polyol-amina/ hazardous) in 9 kg can
- ❖ 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.