

COSTAFLO 500

Two components, solvent free, Epoxy Primer



PRODUCT DESCRIPTION

COSTARFLO 500 is two-component solvent free epoxy primer with high mechanical strength developed for use on metal and concrete surfaces, providing corrosion protection and improved adhesion.

ADVANTAGES

- Ensures a hard and durable surface
- Seals surface preventing water, fuel and oil permeability
- Does not contain pigments
- Ensures safe use in places with poor ventilation
- Seamless dust free and easy to clean surface
- Excellent surface hardness, mechanical and resistance
- Excellent flexural and tensile strength
- Dense corrosion resistance surface

AREA OF USES

COSTARFLO 500 can be applied as both primer and base coat over metal and concrete surfaces in;

- Factories
- Warehouses
- Shopping Centers
- Wastewater treatment plants
- Areas where heavy forklifts and corrosive chemicals are of concern
- It can also be used as general-purpose anti-corrosion primer for concrete and steel surfaces (prepared by abrasive blast cleaning).

APPLICATION

Surface Preparation

Blast clean to SA2½ BS7079: Part A1:1989 (ISO 8501-1:1988). Average surface profile should be in the range of 50-75µm.

Manually prepared surfaces should be to a minimum standard of St 3 BS7079: Part A1:1989 at the time of coating. Ensure surfaces to be coated are dry and free from all traces of surface contaminants.

New concrete surfaces and cementitious plasters must be cured for at least 28 days. It should be dry, free from loosely adhering particles, laitance and grease. All particles must be vacuumed from the surfaces before application. Sand blasting also must be made if necessary. Old concrete surfaces, cementitious plasters and all other similar surfaces should be dry, free from loosely adhering particles, laitance, grease, paint and should be cleaned with a light sand blasting process if possible or by scraping or brushing.

Mixing Instruction

Mix the entire content of each container together and stir thoroughly slowly. Add convertor slowly while mixing the base, then speed up the mixer slightly and completely mix to a homogenous condition.

- Brush and Roller

The material is suitable for brush and roller application. Application of more than one coat may be required to give the equivalent dry film thickness to one spray applied coat

- Airless Spray

Fluid hose length and diameter, paint temperature and project complexity all have an effect on the choice of spray tip and operating pressure. The operating pressure should be the lowest possible consistent with satisfactory atomization. As conditions vary, the applicator must ensure that the equipment in use has been adjusted to give optimum performance. Below are the details of airless spray for guidance;

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Operating pressure: 155Kg/cm² (2200Psi)
 Fan Angle: 40°C

WFT	Nozzle Size
75-125mm	0.33-0.38mm
125-350mm	0.38-0.46m

Conventional spray

For application by conventional spray, thinning with up to 10% Costar Solvent may be required. Adjustment for wet film thickness should be allowed. Thinning will effect VOC compliance.

Below are the details of conventional spray for guidance;
 Atomizing Pressure: 2.8Kg/cm² (40Psi)
 Nozzle Size: 1.27mm
 Fluid Pressure: 0.4Kg/cm² (6Psi)

TECHNICAL PROPERTIES

Packaging	Component A	Component B	Total set
	Resin	Hardener	Flow-able
	11.25kg	3.75kg	15kg
Density (ISO 1675)	1,40 kg/dm ³		
Viscosity (ISO 2555)	3.000- 3.200cps		
Solid content (ISO 1768)	100%		
VOC (volatile organic comp)	10g/l comp A + 0g/l comp B		
Compressive strength	> 50 N/mm ²		
Flexural strength	> 35 N/mm ²		
Concrete adherent	> 2M Pa		
Dry time	4 - 6 hours		
Work-able time	after 24 hour		
Fire class	BFL S1 EN 13501 Euronorm		
Full mechanical load	5days		
Heat resistance	60 °C		
Curing	Shrinkfree		
Pot life	45minute- 1hours		
Ambient service temperature	20°C - 70°C		
Recoat time	7 - 8 hours		
Application method	By roll, notched trowel, brush		

CONSUMPTION:

Total Minimum Consumption: **0.20-0.50 Kg/m²**

Note: Consumption may vary depending on the state of the substrate



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SHELF LIFE

Shelf life is 12 months provided the temperature is kept within the range of 5°C to 50°C.

STANDARD COMPLIANCE

Conforms to the requirement of EN 13813, ISO 2555, ISO 1768

HEALTH & SAFETY

Costarflo 500 should not come in contact with skin or eyes, or be swallowed. Ensure adequate ventilation and avoid inhalation of vapors.

Some people are sensitive to resins, hardeners and solvents. Wear suitable protective clothing, gloves and eye protection. Please refer to SDS

ADDITIONAL INFORMATION

Costarchem manufactures a complete range of construction chemical products which include:

- Concrete admixtures
- Waterproofing system
- Flooring system
- Cementitious and epoxy precision grouts
- Damp-Proofing products
- Sealants and adhesives
- Repair and refurbishment systems

For more information on any of our products, please contact Costarchem global or regional office.

LEGAL NOTE

The information and recommendations relating to the application of Costarchem products, are given in good faith based on current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with the stated recommendations in the product datasheets. Whilst Costarchem endeavors to ensure that any advice, recommendation, specification of information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation of information given by it. The user of the product must test the product's suitability for the intended application and purpose. Costarchem reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.