



COSTAR ZINC PRIMER 20

Two-Component Epoxy Zinc Primer for Reinforcing Steel

PRODUCT DESCRIPTION

Costar Primer 20 is a two-component liquid based metallic zinc and epoxy resins, designed for use as a rust inhibitor for priming exposed reinforcement steel bar where chloride induced attack on steel and concrete is involved. It is compactable with costar repair product and used under non-immersion condition.

ADVANTAGES

- Fast curing, single component; easy to use
- Low VOC
- Provides durable primed surface after curing.
- Provides excellence adhesion between substrate and topcoat.
- Resistant to water and chemicals.
- Compatible with most concrete, masonry, and stone substrate materials
- Fills the pores of concrete and similar substrates

TYPICAL APPLICATIONS

- Costar Zinc Primer 20 is suitable for use on most sound substrate surfaces where both a penetrative and surface lying effect is required over Concrete or similar substrates.
- Costar Zinc Primer 20 can be applied as a protective coating to steel reinforcing bars in concrete as a touch-up primer for damaged galvanized metal and as a primer for steel substrates prior to suitable top coating.

COVERAGE:

Steel Reinforcement Bar: 1 liter of Costar Zinc Primer 20 will cover approximately 97 linear meters of 16mm diameter steel reinforcement bar per coat.

Coating on steel surface: Zinc Primer 20 will cover approximately 0.3Kg/m²-0.4Kg/m².

Apart from small areas the dry film thickness should not exceed 150 µm per layer. The dry film thickness of the primer coat does not respect the correction factors on rough surfaces according to ISO 19840.

SURFACE PREPARATION

Adequate and detailed surface preparation is essential for durability of product after installation. Before application surface must be clean, dry and without contamination.

Concrete - The compressive strength of substrate must be at least 25MPa and cohesive bond strength must not be less than 1.5MPa. It should be cleaned and prepared to achieve a laitance and contaminant-free, open textured surface by blast cleaning or equivalent mechanical means (CSP-3 per ICRI guidelines). Sweep and vacuum any remaining dirt and dust with a wet/dry vacuum. Removing residual dust will help ensure a tenacious bond between the primer and substrate.

Plywood – The substrate should be clean and smooth, APA and exterior grade, not less than 1/2" thick, spaced and supported according to APA guidelines. Joints may need embedded fabric reinforcement. Maximum moisture content 4%.

APPLICATION METHOD

Costar Zinc Primer 20 is ready to use once mixed. Before the application, Zinc primer must be mixed well and then applied with a roller or brush. To completely cover pores on absorbent surfaces second coat should be applied at least 6-8 hours. Repair mortars can be applied as soon as the applied Costar Zinc Primer 20 coating is dry.

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TECHNICAL PROPERTIES

Packaging	2 component (3 kg unit). Component A = 2Kg & Component B = 1Kg
Shelf life	12 months from date of production
Storage condition	Product must be stored in original, unopened, and undamaged sealed packaging in dry condition and temperature between +5 °C and +35 °C.
Mixing	Pour the content of Part B into the container of Part A and mix thoroughly for 2-3 minutes.
Application Temp	Minimum 10° C Maximum 30° C
Drying time	10 -12 hours at 20° C light traffic 7 days to achieve full chemical & mechanical resistance
Density	2.0kg/l
Tensile adhesion strength	2.5MPa tested after 7days according to ASTM C1583 (ASTM D-412)
Tensile strength	12MPa
Shore D hardness	80 tested according to ASTM D2240
Ambient air temp	+5 °C min. / +35 °C max.
Substrate temp	+5 °C min. / +35 °C max
Water tightness	0.27% water absorption tested according to ASTM D570



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STORAGE AND SELF LIFE

Protect from freezing, if frozen or crystallized, thaw gradually and stir to homogenous mixture. Shelf life in unopened original containers is 12 months when stored at 70°F (21°C).

STANDARD COMPLIANCE

Conforms to SCAQMD rule 1168.

LIMITATIONS

- Highly flammable material.
- It may be harmful with skin contact.
- Do not apply in freezing conditions or during precipitation.
- Protect applied materials from rain, freezing, foot traffic and continuous high humidity until completely dry.
- Do not use when air and surface temperatures are below +5°C and above +35°C.

HEALTH & SAFETY

- Please ensure that hand gloves and goggles are worn during installation
- Apply in ventilated areas, away from flames
- It is only important that during application and after application, standard safety procedures are done.
- Please consult current MSDS for product.
- *For Professional Use only.*

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.

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.

