



COSTAR ZINC PRIMER 10

Anti-Corrosion Primer for Steel Reinforcement

PRODUCT DESCRIPTION

COSTAR Zinc Primer 10 represents a technologically advanced solution, characterized by its singular composition as a one-component, cementitious coating meticulously engineered to combat corrosion effectively, specifically devised to safeguard steel reinforcement and serve as a robust bonding agent for concrete surfaces. COSTAR Zinc Primer 10 primer stands as an indispensable component within the realm of protective coatings. Its formulation exhibits a precise synergy of ingredients aimed at enhancing durability and resilience against the corrosive forces that threaten steel infrastructure. Furthermore, its compatibility with a wide range of Costar repair products & underscores its versatility and suitability for diverse construction and maintenance applications.

ADVANTAGES

- Mixes with water only
- Extended pot life and contact time
- VOC compliant (solvent free)
- Resistant to penetration of water and chlorides
- Excellent workability with long pot life
- Very easy to use even on vertical and overhead areas
- Extended open time allowing for repair mortars up to 3 days after application
- Can be applied by brush or spray
- Active corrosion inhibitor

TYPICAL APPLICATIONS

- As an anti-corrosion, protective coating for steel rebar in concrete restoration.
- As a bonding agent for concrete repair mortars or fresh concrete.

SURFACE PREPARATION

Exposed steel reinforcement must be cleaned by abrasive blasting before application of Costar Zinc Primer 10. Concrete reinforcement must be dry, dust and grease free.

Concrete surfaces must be clean and free from laitance, dirt, dust and any other bond inhibiting substances. Concrete surfaces must be left in a saturated surface dry (SSD) condition immediately prior to the application of Costar Zinc Primer 10.

MIXING AND APPLICATION

Mix 4.5 kg pail of Costar Zinc Primer 10 with 1.3 L of water with a suitable drill (max. 300 rpm) and mixing paddle (mixing time approx. 2 – 3 minutes) until a homogenous and lump free consistency is achieved. Allow material to sit approx. 2 minutes then remix 15 – 30 sec. Only mix as much material as can be used within working life of the material (1 hour depending on temperature).

As Steel reinforcement anti-corrosion coating:

Apply Costar Zinc Primer 10 by brush or spray at a thickness of 20 mils (0.5 mm) to properly prepared steel reinforcement. Take care to properly coat the underside of the exposed steel. Apply the second coat, at the same rate, after the first coat has dried (approx. 2 hours). Place repair mortar after primer has dried and within 7 days of application.

As Concrete bonding agent:

Apply Costar Zinc Primer 10 by brush or spray at a thickness of 20 mils (0.5 mm) to a properly prepared and SSD concrete surface. Application of repair mortar or fresh concrete is best while the Costar Zinc Primer 10 is wet. Place repair mortar or fresh concrete immediately after application of bonding agent, or after it has dried (2 to 4 hours), but within 3 days of application.

COVERAGE:

As Steel reinforcement anti-corrosion coating:

Approximately 1.5kg – 1.7kg/m² (2 coats).

As Concrete bonding agent:

Approximately 5m²/3.8 liter at 0.5mm



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TECHNICAL PROPERTIES

Packaging	20kg
Appearance	Gray
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 ratio	4 to 5ltrs of water per 20kg bag
Application Temp	Minimum 10° C - Maximum 30° C
Bulk density	1.7-1.8 kg/l
Compressive strength	4.5MPa @ 28days (ASTM D-412)
Consistence	120mm using standard flow table @ 100mm base cone
Substrate temp	+5 °C min. / +35 °C max
Pot life	45minute (can vary on climatic condition)

Limitation

- Ensure that the substrate and ambient temperatures are between 40°F (5°C) and 90°F (32°C).
- Minimum thickness for corrosion protection is 40 mils (1.0 mm).
- Minimum thickness for bonding agent is 20 mils (0.5 mm).
- Pre-condition material to 70°F (21°C) for 24 hours before using.
- Protect from freezing for 24 hours after application.
- Cover treated areas with suitable sheeting to protect against rain contamination with bond-breaking substances (i.e. construction dust), and corrosion causing salts (i.e. ocean air).
- If material is exposed to the elements, the surface must be cleaned with water prior to the placement of mortar or concrete.
- Areas not being treated are to be protected from the effects of product to be applied, Costar Zinc Primer 10
- Do not re-temper.



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STORAGE AND SHELF 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 the requirement of IS 2645 and IS 9103

HEALTH & SAFETY

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- If material is exposed to the elements, the surface must be cleaned with water prior to the placement of mortar or concrete.
- Areas not being treated are to be protected from the effects of Costar Zinc Primer 10

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.*

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.