

# COSTAR ZINC PRIMER 10

## Anti-Corrosion Primer for Steel Reinforcement

### Description

COSTAR ZINC PRIMER 10 is one-component, cementitious, anti-corrosion coating for protection of steel reinforcement and as a bonding agent for concrete surfaces. It is formulated for use with Costar repair products.

### Applications

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

### 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

### Substrate 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. Follow abrasive blasting by removing all dust (refer to SSPC-SP-10 or NACE-2). 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

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.

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### Technical Details

Appearance	Powder
Bulk Density	1.3Kg/dm <sup>3</sup>
Application Temperature	5°C-35°C
Working Time	Approximately 60 minutes
Flexural Strength (ASTM C 348)	9.8Mpa
Slant Shear (ASTM C 882)	17.9Mpa

### Yield/Coverage

#### As Steel reinforcement anti-corrosion coating:

Approximately 25ft<sup>2</sup>/mixed gal (2 coats)

#### As Concrete bonding agent:

Approximately 5m<sup>2</sup>/3.8 liter at 0.5mm

### Limitations

- 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 Costar Zinc Primer 10
- Do not re-temper.

### Shelf Life

12 months when stored dry in the original unopened packaging.

### Limited Warranty

All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty either expressed or implied. User shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his or her use of the product. Nothing contained in any supplied materials relieves the user of the obligation to read and follow the warnings and instruction for each product as set forth in the current Technical Data Sheet, product label and Safety Data Sheet prior to product use away.

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