

COSTARFLO 300

Heavy Duty Self Levelling Cementitious Overlayment



PRODUCT DESCRIPTION

Costarflo 300 is heavy duty cementitious self-leveling over-layment for concrete floors. It creates an abrasion resistant smooth surface which can be used as a high strength underlayment for coatings and floor coverings; it can also be used as a decorative finish in show rooms, offices and malls when polished.

BENEFITS

- High Strength
- Smooth surface profile
- Ensures safe use in places with poor ventilation
- Excellent flow with long slump life
- Excellent flexural and tensile strength
- Dense corrosion resistance surface
- Great resistance to chemicals, acid and solvents
- Great anti-static properties
- Long-work time, easy placement.
- Can be mixed at a wide range of consistencies.
- Dynamic load stability.

USES

COSTARFLO 300 is used to provide a heavy duty leveled surface for

- Storage and assembly halls.
- Maintenance workshops, & garages.
- Loading ramps
- Factories
- Warehouses, & shopping centers.
- Laboratories,
- Plant / Storage room for pharmaceutical and health care product manufacturing units etc.
- It can also be used for repair of surface defects on concrete floors.

APPLICATION

Surface Preparation

- Clean surface of oil, grease, dirt, laitance and loose material, down to sound concrete.
- New concrete surfaces should be allowed to cure 4 – 6 weeks.
- All cracks and damaged areas should be repaired. Smooth troweled concrete must be acid etched to ensure proper adhesion.

Priming

Concrete substrates should be primed with Costar Primer 10 before application of Costarflo 300.

Mixing

- Add Costarflo 300 into 6 -7 liters of water and mix with a slow speed drill (300-600 rpm) until a lump-free mix is achieved.
- Ensure that adequate water is added to the product. 3% organic pigment can be added to the mixing water until a streak-free mix is achieved.

Application

- Pour the mixed material onto the primed surface and allow to flow and attain a smooth finish.
- Minimal work with a smoothing trowel is required. The use of a spiked roller will help eliminate entrapped air and smooth out flow lines to give a more uniform surface appearance.
- Surfaces with Costarflo 300 is ready for foot and covering with ceramic tiles after 3-4 hours while for heavy traffic, the time is 16 hours after application.

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TECHNICAL PROPERTIES

Packaging	20kg bag
Appearance	Grey/white powder
Shelf life	12 months from date of production
Storage conditions	Product must be stored in original, unopened, and undamaged sealed packaging in dry condition and temperature between +5 °C and +35 °C.
Water ratio	6 to 7 liters of water per 20kg bag of product.
Setting time,	Initial: Approx. 20 minutes Final: 20 to 40 minutes ASTM C191
Compressive strength,	24 hours: (25.0 MPa) 7 days: (39.2 MPa) 28 days: (50 MPa) ASTM C109
Length change,	28 days, air : $\geq -0.05\%$ 28 days, water: $\leq 0.05\%$ ASTM C157
Application temp	Minimum 10° C Maximum 30° C
Density	2.0kg/l
Open time	Approximately 100 minute@20°C and 45minute@35°C
Substrate temperature	+5 °C min. / +35 °C max

CONSUMPTION:

Theoretical consumption of (1.7-2kg/m²) per 1mm thickness can be adopted for use.

NOTE: Actual consumption of product is dependent on the porosity of substrate and the existing profile of the substrate

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SHELF LIFE

Protect from freezing and contamination. Shelf life in unopened, original containers is 12 months, when stored at 68°F (20°C)

STANDARD COMPLIANCE

- ASTM C109 Standard Test Method for Compressive Strength of Hydraulic Cement Mortars
- ASTM C157 Standard Test Method for Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete
- ASTM C191 Standard Test Methods for Time of Setting of Hydraulic Cement by Vicat Needle

HEALTH & SAFETY

- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Wear suitable protective clothing, gloves and eye/face protection.
- If swallowed, seek medical advice immediately and show this container or label.
- Keep the coating materials above 10°C.
- Do not apply when surface temperature is below 10°C or over 35°C
- Do not apply in environments of high humidity/moisture, or if pending rain is a possibility.
- Once mixed, it must be used within its pot life as specified in earlier section

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

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