



COSTARFLO 100

Normal Setting Cementitious Self-Leveling Underlayment

PRODUCT DESCRIPTION

COSTARFLO 100 is a cementitious self-leveling single component product, suitable for use in light to Medium-duty internal applications on new or existing substrates in order to receive all kinds of flooring covering. It has good abrasion resistance and provides a tough surface.

BENEFITS

- Excellent self-leveling properties
- Low VOC
- Smooth surface profile
- Excellent bonding properties
- High Strength and reduced Shrinkage
- 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

APPLICATION AREAS

COSTARFLO 100 is used in areas such as:

- Hotels, theaters, hospitals, schools Industries, etc.
- For levelling existing concrete pavements, terrazzo, ceramic, or natural stone after a good surface preparation and priming.
- It can be applied over light weight screed.

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.

Priming

Concrete substrates should be primed with Costar Primer 10 before application of Costarflo 100.

Mixing Instruction

- Do not mix partial bags, each 20 Kg bags of Costarflo 100 is to be mixed with 5 - 6 liters of clean water in a paddle type mixer on a slow speed drill.
- Slowly add the Costarflo 100 into the water. Mix for a minimum of 2 minutes until lump free.
- Ensure that the mixed material has a temperature not exceeding 300.

Application Instructions

- Pour the mixed material onto the prepared floor 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.
- The mixed material should be applied at a thickness between 3mm to 6mm, but can be taken down to a feathered edge if required.
- For best results, an overall thickness of at least 3mm should be maintained.

Consumption:

Theoretical consumption of (1.3kg/m²) 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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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	5 to 6litres of water per 20kg bag of product
Setting time, ASTM C191	Initial: Approx. 20 minutes Final: 20 to 40 minutes
Unit weight	128 lb/cu ft (2051 kg/m3)
Compressive strength	24 hours: (19.5 MPa) 7 days: (27.4 MPa) 28 days: (30.3 MPa) ASTMC109 modified
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 temp	+5 °C min. / +35 °C max
Consumption	Theoretical consumption of (1.3kg/m2) can be adopted for use.



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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

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.