

COSTAR MORTAR 50

Cement based Plaster Mortar for Thermal Insulation



PRODUCT DESCRIPTION

Costar Mortar 50 epitomizes a meticulously crafted blend, comprising Portland cement, sand, and specialized additives meticulously calibrated for optimal performance in plastering applications. Tailored to meet the demands of diverse substrates, including block walls, concrete surfaces, and bricks, its versatility extends to both interior and exterior applications. This carefully formulated mixture excels not only in traditional plastering tasks but also in the comprehensive filling of structural voids and imperfections, ensuring a flawless finish across a broad spectrum of construction projects.

AREA OF USE

- Suitable for creating a leveled surface on a very uneven masonry or structural concrete element.
- Suitable for smoothing walls and ceilings before final treatment is applied.
- Suitable for fillings holes and irregularities, leveling and covering ceilings during renovation work.
- They are also suitable for direct application to mineral-based substrates such as gypsum boards or plastered surfaces
- Repairing, leveling and undercoating old rendered surface.

APPLICATION INSTRUCTION

Surface Preparation

To ensure an effective and enduring application, meticulous attention must be paid to the condition of the substrates. Substrate must be thoroughly cleaned, devoid of any debris, dust particles, or foreign matter that could impede proper adhesion. The substrate must be thoroughly cleaned, dry, free from loose and friable materials, or low adhesion coatings and any other substances that might the bonding of Mortar 20 to the substrate. Having a surface saturated dry (SSD) surface is beneficial.

Mixing

Mix manually using an electrical hand mixer or mechanically a 20 kg of Costar Plastering Mortar with 4.5 to 5 liters of clean water until a homogeneous paste is obtained. Let the mix rest for a few minutes.

Application

- Apply the plaster on the prepared surface manually with a plastering trowel or by spraying it.
- Target layer thickness between 10-20 mm in one layer.
- Finish the surface with a wooden or steel float as required.
- Let the product set properly on the surface before any curing.
- If more thickness is required the application should be done in two layers.
- The 1st layer should be roughened then cured.
- The 2nd layer should be applied at least 48 hours after the first one.

Curing

Protect the newly applied plaster from sunshine and wind. The new plaster has to be cured with water for at least three days by spraying 3 to 4 times daily.

Precaution:

- Do not use more water than recommended during mixing
- Addition of extra materials to that of included in the package is not advised.
- Do not mix material in open weather under pouring rain
- Add powder to liquid
- Mix material by mechanical means and not manually.

Always refer to relevant product specification documents (such as TDS, SDS, MSDS MS) for further guidance

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TECHNICAL PROPERTIES

Packaging	20kg
Appearance	Grey
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.
Mixing ratio	4 to 5ltrs of water per 20kg bag
Application temp	Minimum 10° C Maximum 30° C
Max aggregate size	2mm
Bulk density	1.7-1.8 kg/l
Compressive strength	5.5MPa @ 28days
Coverage	4kg per m2 (or 7.5 – 8sqft/20kg bag @ 10-12mm thickness) NB: The theoretical coverage provided above is obtained based on controlled lab practicals and variations can be expected onsite due to porosity of the substrate, accounting for wastage during application and prevailing weather conditions.
Pot life	45minute (can vary on climatic condition)
Ambient air temp	+5 °C min. / +35 °C max.
Silt content in sand	<0.5%
soundness	<0.01%
Substrate temp	+5 °C min. / +35 °C max





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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

Conforms to the requirement of IS 2645 and IS 9103

LIMITATION

- Do not apply the product under direct sun light and at rainy and windy weather
- The prepared mortar must be consumed within not later than 3 hours.

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.