

COSTAR MORTAR 20

Cement based Plaster Mortar for Thermal Insulation



PRODUCT DESCRIPTION

Costar Mortar 20 is a dry mix cement-based plaster mortar reinforced with special additives and polymers specifically designed for interior and exterior coating of thermal insulating plates, allowing easy application, resistant to water, impact and weather conditions with a long usage and correction period. It can adhere to a wide range of substrate (such as concrete, masonry wall, concrete blocks, brick walls etc).

BENEFITS

- Easy preparation (Pour powder to liquid)
- Quick application thanks to good deformability and plasticity.
- Fireproof, durable and long lasting
- Resistant to water, frost, moisture and severe weather conditions
- Provides an excellent flushed surface substrate for the application of further finish
- Minimized risk of cracking
- High level of water vapor permeability
- Long usage and correction period

AREA OF USE

- Suitable for both interior and exterior facade applications.
- Functions as a complementary coating within thermal insulation systems, particularly in meshed plaster applications.
- Ideal for reprofiling wall surfaces to achieve a smoother finish.
- Provides a reliable substrate for the application of additional finishing materials, such as paints.
- Well-suited for use in decorative and facade mortar applications.
- Demonstrates versatility in its ability to be applied to various substrates, including concrete, concrete blocks, cement-lime mortar, and hollow brick.

APPLICATION

Surface Preparation

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 surface is beneficial.

Mixing and Application

- Slowly add 20Kg of Costar Mortar 20 in 4.5L water in the mixing container and mix it with a preferably low speed mixer until a smooth consistency is achieved.
- Allow the mortar to rest for 3 minutes and mixed for further 1-2 minutes and then applied to the surface with notch trowel.
- The application thickness of plaster must be approximately 4 mm.
- Ensure that the surface is dampened at certain intervals after the application at higher temperatures than +25°C to prevent sudden water loss and ensure healthy drying of the plaster.

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 consult relevant product specification documents such as Technical Data Sheets (TDS), Safety Data Sheets (SDS), Material Safety Data Sheets (MSDS), and manufacturer instructions for comprehensive guidance on proper usage, handling, and safety protocols.



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TECHNICAL PROPERTIES

Packaging	20kg
Appearance	Grey
Shelf life	12 months from date of production
Texture Feel	Smooth & Powdery
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	3.0MPa @ 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	<1%
soundness	<0.03%
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.