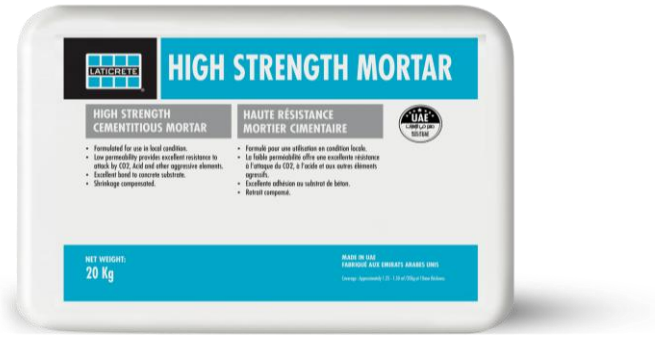
HIGH STRENGTH MORTAR

High Strength Cementitious Mortar is ready to use blend of specialty dry polymer powders. The addition of a controlled amount of clean water produces a highly consistent, repair mortar suitable for structural concrete and masonry repairs.



ADVANTAGES

- Vertical and horizontal repairs
- Formulated for use in local condition.
- Low permeability provides excellent resistance to attack by CO2, Acid and other aggressive elements.
- Excellent bond to concrete substrate.
- Shrinkage compensated.
- Suitable for spray or hand trowel applications with high build characteristics.
- Chloride free.

USES

- Repairs to industrial area (oil, gas and petrochemical foundations..ect.), Traffic area, marine and civil structures (reinforced beam, columns, slabs in high rise buildings, tunnel, pipe and other below ground constructions..ect.)
- Recommended up to 50mm in a one layer by hand application. Greater thickness can be achieved when spray applied.

MANUFACTURER

LATICRETE Middle East LLC.
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United Arab Emirates
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PACKAGING / COLOR

Packaging - 20kg bag; 72 bags per pallet

Approximate Coverage*
1.25 - 1.50 m²/20 kg at 10mm thickness.

Shelf Life
Factory sealed containers of this product are guaranteed to be of first quality for one (1) year** if stored off the ground in a dry area.
** High humidity will reduce the shelf life of bagged product.

Limitations
- Surface temperature should be within specified range during the time of application.
- Fresh application should not be exposed to water until fully cured.
- Avoid application during the hottest time of the day and under direct sunlight. Arrange for temporary shade if necessary.
- Keep equipment cool, use cool water at 25ºC

Cautions
Before using any product:
- Read and understand the Product Data Sheet and Material Safety Data Sheet
- Check **www.laticrete.me** for any technical bulletins or updated information about the product and its application.
- Contact your local Technical Sales Representative with any questions.
- Consult MSDS for more safety information
- Protect finished work from traffic until fully cured
- Contains portland cement and silica sand. May irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin. In case of contact, flush thoroughly with water.
- Do not take internally. Silica sand may cause cancer or serious lung problems. Avoid breathing dust. Wear a respirator in dusty areas.
- Wear suitable protective clothing, gloves, eye protection to avoid irritation and inhalation. In case of contact with skin, rinse with plenty of clean water.
- Keep out of reach of children

TECHNICAL DATA

Physical Parameters

Properties	Test Method	Values
Color	-	Grey
Maximum aggregate size(mm)		2.0 mm
W/P ratio	-	0.15 - 0.18
Wet Density, kg/m³	-	2200 ± 100
Working Time @ 25 Deg.C	-	25 mins

Performance parameters

Compressive strength, N/mm² 3 day 7 day 28 day	ASTM C109	 30 - 40 45 - 55 60 - 70
Flexural strength- 28 days, N/mm²	BS 6319-3	≥ 10
Tensile Strength- 28 days, N/mm²	BS 6319-7	≥ 5
Bond Strength- 28 days, N/mm²	BS 1881-207	>1.5
Drying Shrinkage- 28 days	ASTM C157	≤ 0.05%
Water Permeability	BS 12390-8	<10 mm

Note: Technical data shown in product data sheets are typical but reflect laboratory test procedures conducted at controlled conditions at 23±2 °C and 55±5% relative humidity.

INSTALLATION

Surface Preparation
All surfaces should be 5°C to 35°C during the application. In case the surface temperature is higher, wet frequently with cool water and provide temporary shade from direct sunlight. Clean the surface and remove any dust, unsound material, plaster, oil, grease, paint and roughen the surface by mechanical means. Oil and grease should be removed by steam cleaning, detergent scrubbing or use proprietary degreaser.
The damaged areas of concrete to be removed must be clearly identified. Area should be saw cut to a depth of 10 mm and the edges cut as neatly as possible keeping the side square and minimum thickness of 10 mm must be maintained over the entire area.
If reinforcement is corroded ensure that the back of the steel has been exposed. Reinforcement should have all rust removed by the use of power tools..

Mixing
Use suitable sized mixing vassal and slow speed (300 RPM) heavy duty drill mixer.
Pour 3.0 – 3.6 liter of cool water (20ºC) in to the mixer. While the machine in operation, add one full 20 kg bag of powder and mix 3 to 5 minutes to achieve homogeneous mix. (Water ratio may be adjusted to allow good spray application between 3.0 to 3.6 liters per 20 kg bag)

Application
High Strength Mortar can be sprayed or trowel applied. Before placing mortar, apply a slurry bond coat made from LATICRETE*3642 Latex Concentrate and OPC.
While the slurry bond coat is still wet spread the mortar. Leveling and initial finishing should be carried out using a wooden or plastic float after the material has a bit stiffened to the point where light finger pressure leave marks on the fresh mortar.
Where large volumes have to be placed, spray pump may be used.

Curing
High Strength Mortar needs wet curing in exteriors. This should be done using water and/or wet Hessian. Place plastic sheets over wet Hessian.

AVAILABILITY AND COST

Availability
LATICRETE® materials are available worldwide. For distributor information, please contact LATICRETE Telephone: For on-line distributor information, visit www.laticrete.com

Cost
Contact a LATICRETE® closer distributor to obtain complete information and cost.

WARRANTY

The supplier warrants that the product will not deteriorate under normal conditions and use. The warranty validity of one (1) year. Contact Technical Support for further information.

MAINTENANCE

LATICRETE® products are of high quality designed to achieve lasting installations and avoid maintenance, however performance and durability may depend on properly maintaining products, depending of the cleaning products used.

TECHNICAL SERVICES

Technical assistance
For information contact:
enquiry@laticrete.me

Technical and safety literature
To obtain technical and safety literature, please visit our website at www.laticrete.me

Warning
The information and the instructions in the data sheet, although based on knowledge gained through years of applications, are indicative. LATICRETE® unable to directly control the installation conditions and modalities of application of products, do not assume any liability arising from theirs implementation. Those who want to use the LATICRETE® products must conduct adequate tests to determine the site specifications. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation method and site conditions.