



S/R Mortar

S/R Mortar is a polymer fortified blend of carefully selected polymers, Portland cement and graded aggregates. S/R Mortar does not require the use of latex admix, only need to add water to produce thick bed mortar with exceptional strength. It is especially intended for medium to thick screed or for improving the surfaces of concrete before tiling and levelling to specific ceiling height



FEATURES/BENEFITS
<ul style="list-style-type: none"> ▪ Polymer fortified – no need for latex additives ▪ Pumpable for large scale projects ▪ Premixed; No job site blending of powders required ▪ Economical

SUITABLE SUBSTRATES
<ul style="list-style-type: none"> ▪ Concrete ▪ Brick and Concrete Masonry

MANUFACTURER
<p>LATICRETE (Malaysia) Sdn Bhd #18-08, Faber Tower 2, Jalan Desa Bahagia, Taman Desa, 58100 Kuala Lumpur, Malaysia Tel: +603 7989 9188 Fax: +603 7972 0331 Internet: https://ma.laticrete.com</p>

USES
For interior and exterior use for preparing conventional thick cement mortar beds, cement plasters and concrete repairs

PACKAGING
40kg bag; 50 and 80 bags per pallet



This product has been certified green under the Singapore Green Building Council

Approximate Coverage

40kg bag of S/R Mortar when mixed with 4.25ℓ – 4.75ℓ of potable water will yield approximately 1.25m² coverage at 20mm thick

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 at temperatures > 0°C and < 40°C

*High humidity will reduce the shelf life of bagged product

Limitations

- Use LATAPOXY® 300 adhesive for installing green marble or water sensitive natural stone and agglomerates
- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not designed as replacements for waterproof membranes. When a waterproof barrier is required, use a LATICRETE waterproof membrane
- Surfaces must be structurally sound, stable and rigid enough to support ceramic/stone tile, thin brick and similar finishes. Substrate deflection under all live, dead and impact loads, including concentrated loads, must not exceed L/360 for thin bed ceramic tile/brick installations or L/480 for thin bed stone installations where L-span length. See TDS1011 for more details

Cautions

Consult MSDS for more safety information

- During cold weather, protect finished work from traffic until fully cured
- Allow a minimum 14 day cure after the final grouting period prior to filling water features with water
- 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
- Keep out of reach of children

TECHNICAL DATA**Performance Properties**

S Mortar mixed with water

Test	Test Method	Results
Compressive Strength (28 days)	ASTM C109/109 M:2013	>30N/mm ²
Tensile Adhesion Strength (28 days)	BS EN 1015-12:2000	>1N/mm ²
Flexural Strength (28 days)	ASTM C348:2008	>5N/mm ²
Modulus of Elasticity in Compression	BS EN 13412:2006	>20,000N/mm ²
Water Retentivity (%)	BS 4551:2005 + A2:2013	>90%
Water Absorption (%)	ASTM C413:2001 (2012)	<5%
Flow (%)	ASTM C1437:2013	>84%
Shrinkage (28 days)	COUTINHO RING TEST	No Crack
Stiffening Time - 1.0N/mm ² - 2.0N/mm ²	BS EN 1015-9:1999 (Method A)	>150mins <210mins

R Mortar mixed with water

Test	Test Method	Results
Compressive Strength (28 days)	BS EN 1015-11:1999	>13N/mm ²
Tensile Adhesion Strength (28 days)	BS EN 1015-12:2000	>1N/mm ²
Flexural Strength (28 days)	BS EN 1015-11:1999	>5N/mm ²
Shear Adhesion Strength (28 days)	HDB's Test Method for Prepacked Mortar	>1N/mm ²
Capillary Water Absorption	BS EN 1015-18:2002	0.02kg/m ² .min ^{0.5}
Water Retentivity (%)	BS 4551:2005 + A2:2013	>98%
Water Absorption (%)	ASTM C413:2001 (2012)	<5%

Linear Shrinkage 28 days (%)	ASTM C531:2000 (2012)	<0.09%
Polymer Content (%)	ADM/C&B/00 1:2013	>3%
Stiffening Time - 1.0N/mm ² - 2.0N/mm ²	BS EN 1015-9:1999 (Method A)	>280mins <400mins
Product Identification	ADM/C&B/00 2:2010	Vinyl Acetate- ethylene Copolymer

Working Properties

Pot Life (30°C)	1 – 2 Hours
Time to Light Traffic	>24 Hours

Specifications subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions

INSTALLATION

Surface Preparation

All surfaces should be between 8°C – 35°C and structurally sound, clean and free of all dirt, oil, grease, laitance, paint, concrete sealers or curing compounds. Dry, dusty concrete slabs or masonry should be dampened and excess water swept off. Installation may be made on a damp surface. Expansion joints shall be provided through the tile work from all construction of expansion joints in the substrate. Follow ANSI specification A108-01 – 3.7 “Requirements for Movement Joints: Preparations by Other Trades” or TCNA detail EJ-171 “Movement Joints – Vertical & Horizontal”. Do not cover expansion joints with mortar

Application

Mixing – S Mortar for Floor Screed

Mix 40kg of S Mortar with approximately 4.25ℓ – 4.75ℓ of potable water. Mix to an easily compactable, semi-dry consistency that holds its shape and presents with a slight sheen to the surface. Mix only what can be used within the pot life as a mortar. **Please do not mix other aggregates such as cement or sand etc to S Mortar**

Installation – S Mortar for Floor Screed (Unbonded)

Before placing mortar, place a cleavage membrane (e.g. 4mil thick polyethylene sheeting or 15lb, builder felt) on the substrate. Place mortar over the cleavage membrane (approximately ½ the depth of the mortar bed). Next, place

50mm x 50mm, 16 gauges galvanized welded wire mesh over the mortar. Then, place the balance of the mortar bed. The wire mesh should be suspended in the middle of the mortar bed. Spread the mortar and compact well. Minimum mortar bed thickness shall be 50mm. If placing tile immediately, apply a slurry bond coat, made from 335 Premium Flexible Adhesive or other specified bond coats to the mortar. While the slurry bond coat is wet and sticky, place the tile and beat in well

Application

Mixing – R Mortar for Wall Render

Mix 40kg of R Mortar with 5.25ℓ – 5.75ℓ of water. Mix to a plastic consistency. Mix ratio may vary dependent upon site conditions. **Please do not mix other aggregates such as cement or sand etc to R Mortar**

Installation – R Mortar for Wall Render (Bonded)

No slurry bond coat is required prior to placing wall renders. Apply wall render with a steel trowel pressing mortar into good contact with the prepared substrate. Apply “scratch coat” first – not to exceed 12mm thickness. Scratch mortar before it hardens. After “scratch coat” hardens, apply the “float coat” working the mortar into good contact with the scratch coat. Do not exceed 15mm thickness per lift. Scratch all lifts that will receive additional float coats. Float wall with steel trowel and straight edges to form a plumb and true mortar surface. Allow the completed render coats to cure for 24 hours at 21°C prior to the installation of tile

Cold Weather Note: The setting of Portland cement adhesives, mortars and grouts are retarded by low temperatures. Protect finished work for an extended period when installing in cold weather. For faster setting adhesive use LATICRETE Rapid Setting Thin-Set Adhesives and Additives. Do not set tile when surface temperature is below freezing or when substrate is frozen. For further information, see TDS1002

Hot Weather Note: The evaporation of moisture in Portland cement adhesives, mortars and grouts is accelerated by hot, dry conditions. Apply to dampened surfaces and protect freshly spread mortar and finished work when installing in temperatures over 35°C. For further information, see TDS1018

Cleaning

Clean tools and tile work with water while mortar is fresh

AVAILABILITY AND COST

Availability

LATICRETE materials are available worldwide

For distributor information, call:

Telephone: +603 7989 9188

Fax: +603 7972 0331

For online distributor information, visit LATICRETE at <https://ma.laticrete.com>

Cost

Contact a LATICRETE distributor in your area

WARRANTY

LATICRETE (Malaysia) Sdn Bhd warrants that 3701 Fortified Mortar Bed is free from manufacturing defects and will not break down, deteriorate or disintegrate under normal usage for a period of one (1) year from date of purchase subjected to terms and conditions stated

MAINTENANCE

LATICRETE grouts require routine cleaning with a neutral pH detergent and water. All stone and tiles should be maintained and sealed with STONETECH® products as appropriate for the specific tile / stone and installation situation

All other LATICRETE materials require no maintenance but installation performance and durability may depend on properly maintaining products supplied by other manufacturers

TECHNICAL SERVICE/CONTACT

Technical Assistance

Information is available by calling:

LATICRETE (Malaysia) Sdn Bhd
#18-08, Faber Tower 2, Jalan Desa Bahagia,
Taman Desa, 58100 Kuala Lumpur,
Malaysia

Telephone: +603 7989 9188

Fax: +603 7972 0331

Email: enquiry@laticrete.com.my

Technical and safety literature

To acquire technical and safety literature, please visit our website at <https://ma.laticrete.com>