



Globally Proven
Construction Solutions

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

- Polymer fortified – no need for latex additives
- Premixed – no job site blending of powders required
- Economical – saves time and money
- Pumpable for large scale projects

USES

- S Mortar – for floor application
- R Mortar – for wall application
- Interior and exterior applications
- Wet and dry applications
- Bonded and non-bonded thick bed mortar applications
- Conventional thick bed mortar applications

MANUFACTURER/ DISTRIBUTED BY

LATICRETE South East Asia Pte Ltd (Level 2, A3)

No. 38 Sungei Kadut, Street 2, Singapore 729245

Telephone: +65 6515 3028 Fax: +65 6515 3037

Internet: se.laticrete.com

STANDARDS/CERTIFICATIONS

- ASTM C109/109M:2013
- ASTM C348:2008
- BS EN1015-12:2000
- BS EN 13412:2006
- BS
- BS EN 1015-9:1999(Method A)
- BS EN 1015-11:1999
- BS EN 1015-12:2000
- HDB's Test Method for Prepacked Mortar
- BS EN 1015-18:2002
- ASTM C531:2000(2012)
- ADM/C&B/001:2013



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

Suitable Substrates

- Concrete
- Brick masonry

Packaging

40kg bag, 50 bags per pallet.

Approximate Coverage S/R Mortar

22 to 25m² at 1 mm thickness

Shelf Life

Factory sealed bags of this product are guaranteed to be of first quality for one (1) year* if stored in a dry place 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 moisture sensitive stone, agglomerates, and resin backed tile or stone.
- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not replacements for waterproofing membranes. When a waterproofing membrane is required, use a LATICRETE Waterproofing Membrane.
- Note: 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.

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 filing 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**Working Properties**

Pot Life (30°C)	1 to 2 hour
Time to Light Traffic	>24 hours

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

Performance Properties**S Mortar**

Test	Test Method	S Mortar
Compressive Strength @28days (N/mm ²)	ASTM C109/109 M:2013	>30 N/mm ²
Flexural Strength @28days (N/mm ²)	ASTM C348:2008	>5 N/mm ²
Tensile Adhesion Strength @28days (N/mm ²)	BS EN1015-12:2000	>1 N/mm ²
Modulus of Elasticity in Compression	BS EN 13412:2006	>20,000 N/mm ²
Water Retentivity (%)	BS 4551:2005 + A2:2013	>90%
Water Absorption (%)	ASTM C413:2001 (2012)	<5%
Shrinkage @28days (%)	COUTINH O RING	No Crack
Flow (%)	ASTM C1437:2013	>84%
Stiffening Time - 1.0 N/mm ² - 2.0 N/mm ²	BS EN 1015-9:1999 (Method A)	>150 mins <210 mins

R Mortar

Test	Test Method	R Mortar
Compressive Strength @28days (N/mm ²)	BS EN1015-11:1999	>13 N/mm ²
Flexural Strength @28days (N/mm ²)	BS EN1015-11:1999	>5 N/mm ²
Tensile Adhesion Strength @28days (N/mm ²)	BS EN1015-12:2000	>1 N/mm ²
Shear Adhesion Strength @28days (N/mm ²)	HDB's Test Method for Prepacked Mortar	>1 N/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 @28days (%)	ASTM C531:2000 (2012)	<0.09%
Stiffening Time - 1.0 N/mm ² - 2.0 N/mm ²	BS EN 1015-9:1999 (Method A)	>280 mins <400 mins
Polymer Content (%)	ADM/C&B/00 1:2013	>3%
Product Identification	ADM/C&B/00 2:2010	Vinyl Acetate-ethylene Copolymer

INSTALLATION

Surface Preparation

All surfaces should be between 8°C and 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 or 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

S Mortar for Floor Screed

Mixing S Mortar - Dry Pack Consistency for floors. Mix a 40 kg of S Mortar to 4.25ℓ - 4.75ℓ of water. Mix to a stiff, semi-dry consistency. Mix ratio may vary dependent upon site conditions. **Please do not mix other aggregates such as cement or sand etc to S Mortar.**

Unbonded S Mortar Bed—Installation

Before placing mortar, place a cleavage membrane (e.g. 4 mil thick polyethylene sheeting or 15 lb, builder felt) on the substrate. Place mortar over the cleavage membrane (approximately 1/2 the depth of the mortar bed). Next, place 50mm x50 mm, 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 50 mm. If placing tile immediately, apply a slurry bond coat, made from 4237 Thin Set Mortar Additive mixed with 211 Crete Filler Powder to the mortar. While the slurry bond coat is wet and sticky, place the tile and beat in well.

R Mortar for Wall Render

Mix 40kg of R Mortar to 5.25ℓ - 5.75ℓ of water. Mix to a desire 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.**

Bonded S/R Mortar - Installation

Before placing mortar, apply a slurry bond coat made from 4237 Thin set Mortar Additive mixed with 211 Crete Filler Powder. Apply a slurry bond coat to all reinforcing steel and existing clean, sound and stable concrete surfaces just prior to placing the mortar. While the slurry bond coat is wet and sticky place the topping mortar. Compact the surface of the mortar with a flat trowel and ensure all voids are filled. Avoid over troweling.

Cold Weather Note

The setting of Portland cement mortars and grouts are retarded by low temperatures. Protect finished work for an extended period when installing in cold weather.

Note: A slurry bond coat should also be applied to the edges of mortar beds installed from previous work periods.

Hot Weather Note:

The evaporation of moisture in Portland cement mortars is accelerated by hot, dry conditions. Apply mortar to dampened surfaces and protect freshly spread mortar and finished work when installing in temperatures over 32°C.

Cleaning

Clean tools with water while the mortar is fresh.

AVAILABILITY AND COST

Availability

LATICRETE and LATAPOXY materials are available worldwide. For distributor information, call:

Telephone: (65) 6515-3028

Fax: (65) 6515-3037

For on-line distributor information, visit LATICRETE at se.laticrete.com

Cost

Contact a LATICRETE Distributor in your area.

WARRANTY

LATICRETE South East Asia Pte Ltd warrants that LATICRETE Polymer Fortified Mortar is free from manufacturing defect and will not break down, deteriorate or disintegrate under normal usage for a period of one (1) year from date of purchase subject to the terms and conditions.

MAINTENANCE

LATICRETE and LATAPOXY materials are premium quality construction products requiring no maintenance to ensure performance. For aesthetic/hygienic reasons, LATICRETE and LATAPOXY grouts can be routinely cleaned with soap and water.

TECHNICAL SERVICES/ CONTACT

Technical Assistance

Information is available by calling:

LATICRETE South East Asia Pte Ltd

(Level 2, A3)

No. 38 Sungei Kadut, Street 2,

Singapore 729245

Telephone: (65) 6515-3028

Fax: (65) 6515-3037

Email: enquiry@laticrete.com.sg

Technical and safety literature

To acquire technical and safety literature, please visit our website at se.laticrete.com