



Globally Proven
Construction Solutions

Mortar UT HF

Mortar UT HF is a thermal shock resistant polyurethane mortar screed applied in thickness from 6-12mm floor finish. Its provide a seamless, high mechanical properties, high chemicals, anti-slip, freeze and thaw resistance with texture matt finish.



FEATURES/BENEFITS

- Suitable for hygienic hot water steaming clean.
- Hard wearing; good abrasion resistance.
- High chemical resistance against alkalis, acids and organic solvents.
- High mechanicals and impact resistance.
- Temperature service with wide range between -40°C to 150°C.
- Resist fungi, mildew and bacteria growth.
- Solvent free, odorless.
- After cured, non-cytotoxic response.
- Anti-slip for safety; oily floor.

USES

- GMP, HACCP, compliance hygienic Industrial floors
- Abattoir
- Dry/wet food processing, beverage, seafood, meat production
- Central kitchen
- Cold storage, freezer (cool room)
- Confectionery manufacturing
- Palm oil processing
- Wet packaging plants
- Dairy products manufacturing

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 D4060-10
- ASTM D2240
- BS 7976-2

Suitable Substrates

- Over Concrete
- Polymer modified screed

Packaging

Part A: 3kg
Part B: 3kg
Part C: 6kg
Part D: 18kg

Full set packaging: 30.0kg

Coverage

One set of Mortar UT HF yield a coverage of approximate 2.2 m² at 6mm thick per coat.

Colours

Mighty Green, Paver Grey, Ultimate Grey

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for nine (9) months for part A, B and C and eighteen (18) months for Part D if stored off the ground in a dry area, at temperatures 10 - 30 °C.

Limitations

This is a product of Industrial use and not domestic. It should only be applied by personnel with an adequate sense in the appropriate methods of application and handling of the product. Not applicable on asphalt floor, tiles, clay brick, copper, aluminum, wood floors or urethane-derived compositions such as elastomeric membranes, composite polyester fibers, PVC membranes. Do not apply to porous surfaces where the water vapor stream may be present during application. Do not apply to surface with water or completely moist. Do not apply over concrete and moisture is greater than 10%.

Cautions

Before using any LATICRETE product:

- Check se.laticrete.com for any technical bulletins or updated information about the product and its application
- Consult MSDS for more safety information

TECHNICAL DATA**Performance Properties**

Density	2.1g/ml
Pot Life(Working Time)	
25 °C, +50 RH%	+/- 22 minutes
Re-topping / Subsequence Coating Interval (25 °C)	within 18-24 hours
Curing time (25-30°C)	
Pedestrian Traffic	12 hours
Heavy Traffic	24 hours
Fully Chemical Cure	7 days

Performance Properties**Results**

Compress Strength)	28 days	43 N/mm ²	
	100°C Heat exposures	48 N/mm ²	
	<0°C Freeze / thaw exposures	40 N/mm ²	
Adhesive Strength (N/mm ²)	28 days	2.3	Concrete failure
	100°C Heat exposures	2.0	
	<0°C Freeze / thaw exposures	2.0	
	Thermal shock	1.9	
Flexural Strength	28 days	13 MPa	
	100°C Heat exposures	12 MPa	
	<0°C Freeze / thaw exposures	14 MPa	
Service Temperature		At 6-9mm: -15°C to 130 °C	
Shore D hardness ASTM D2240 (28 Days)		80-85	
Shrinkage %:(28 Days)		0.01%	
Slip Resistance (BPN) BS 7976-2	Dry (28 Days)	75-80	
	Wet(28 Days)	55-60	
ASTM D4060-10 Taber Abrader (1000 cycle, H22 wheel)		1.2 g	

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.

Chemical Resistant

Chemical	Concentration	Temp(°C)	Resistance
Acetic Acid	10%	28°C	Excellent
Beer	-	28°C	Excellent
Blood	-	28°C	Excellent
Citric Acid	20%	28°C	Excellent
Detergents-acidic	All	28°C	Excellent
Detergents-alkaline	All	28°C	Excellent
Fats-animals and vegetable	-	28°C	Excellent
Fish Oils	-	28°C	Excellent
Lactic Acid	5%	28°C	Excellent
Oil-diesel	-	28°C	Excellent
Oil-fuel	-	28°C	Excellent
Oil-minerals	-	28°C	Excellent
Sugar	100%	28°C	Excellent

Sodium hydroxide	50%	28°C	Excellent
Sodium Sulphate	All	28°C	Excellent

INSTALLATION SYSTEM

Surface Preparation

Concrete substrate or polymer modified screed should have a minimum of compressive strength 25N/mm² and adhesive pull-off strength of minimum 1.5N/mm². The substrates should be clean and free from laitance, oil, dust, loose constituents, paint residues, chemical, algae and other contamination should be removed. The substrates should be dry and free from ground water pressure. If substrate moisture exceeded 7%, apply Epoxy mortar (compressive strength 80N/mm²) 4-5mm thick as a moisture barrier. The substrate must be prepared by vacuum shot blasting, rough contaminations to remove by grinding. Cracks and hollows should be properly remedied. Prepare grooves 3mm wide X 3mm deep at all edges, bay joints columns, doorways and drains for anchoring purpose.

Mixing

Agitate the Part A & Part B. Pour Part A (3kg) into the clean mixing container; add the Part B(3kg) into the clean mixing container and mix for 5-10 seconds by using a suitable electrical helical spinner mixer (with 750watt High Power Mixer), subsequently add in Part Part C (6kg) and mix at least 1-2 minutes, lastly add in Part D (18kg) to mix at least 3-4 minutes until it fully achieved a homogeneous consistent.

Application

- Apply a coat of epoxy primer, followed by scatter with graded dried sand for sealing well the substrate porosity.
- Within 14~18 hours; of primer cured, then only apply Mortar UT HF as scratch coat (within ±1 mm thick)
- Within 14 – 18 hours of Mortar UT HF Scratch coat cured, then only allow doing layering of Mortar UT HF topping on to the Mortar UT HF Topping onto the Mortar UT HF Scratch coat.
- Apply Mortar UT HF Topping must within the pot life (working time ± 22 minute.)
- Spread the composite matrix with a clearance control screed box or by hand trowel to the desired thickness, immediately use a short nap roller to roll evenly on the surface to get the surface texture finishing evenness.

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 Mortar UT HF is free from manufacturing defects and will not to break down, deteriorate or disintegrate under normal usage for a period of one (1) year from date of purchase subject to terms and conditions stated.

MAINTENANCE

The long term performance, appearance, and life expectancy of wear surface products are critically dependence upon a good routine maintenance regime designed specifically for the installed wear surface.

TECHNICAL SERVICES

Technical Assistance

Information is available by calling:

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Technical and safety literature

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