Mortar UT HF

Mortar UT HF is a thermal shock polyurethane mortar screed applied in thickness from 6-12mm floor finish. Seamless, high mechanical properties, high chemicals, anti-slip, heat and cool resistance with texture matt finish.

FEATURES/BENEFITS
- 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, Hygienic, HACCP Industrial floors
- Wet food processing, beverage, seafood, meat
- Kitchen
- Cold storage, freezer (cool room)
- Palm oil processing
- Wet packaging plants

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 D 4060-10
- BS 6920: Part 1: 2000 clause 6
Suitable Substrates
- Over Concrete

Packaging
Part A: 3kg
Part B: 3kg
Colour Filler WG: 0.5kg
Plain Filler C-13.5: 13.5 kg
Filler HF: 12kg

Full set packaging: 32kg

Coverage
One set of Mortar UT HF yield a coverage of approximate 2.6m² at 6mm thick per coat

Colours
Green, Red, Grey, Cream, Buff, Light 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 plain filler and eighteen (18) months for colour filler WG and Filler HF 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

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Pot life(working time)</th>
</tr>
</thead>
<tbody>
<tr>
<td>25 °C</td>
<td>25mins</td>
</tr>
<tr>
<td>30 °C</td>
<td>22mins</td>
</tr>
</tbody>
</table>

Recoating time(28 °C) within 14 - 18 hours

Curing time (32 °C)
- Human Traffic: 24 hours
- Light Traffic: 30 hours
- Fully Chemical Cure: 5 days

Performance Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile Strength</td>
<td>25Mpa</td>
</tr>
<tr>
<td>Compress Strength(28days)</td>
<td>50N/mm</td>
</tr>
<tr>
<td>Adhesive Strength</td>
<td>&gt;2.0Mpa (concrete failure)</td>
</tr>
<tr>
<td>Flexural Strength</td>
<td>15Mpa</td>
</tr>
<tr>
<td>Service Temperature</td>
<td>At 6-9mm: -15°C - 130°C</td>
</tr>
<tr>
<td></td>
<td>At 9-12mm: -40 °C – 150 °C</td>
</tr>
<tr>
<td>Shore D hardness</td>
<td>80-85</td>
</tr>
<tr>
<td>Cytotoxicity (2.4 or less)</td>
<td>Below&lt;0.5</td>
</tr>
<tr>
<td>ASTM D 4060-10 Taber Abraser Wear index in mg/1000 Revolutions/1kg</td>
<td>38mg</td>
</tr>
<tr>
<td>BS 6920: Part 1: 2000 clause 6 Growth of Aquatic Microorganisms</td>
<td>&lt;2.39 or less</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Concentration</th>
<th>Temp(°C)</th>
<th>Resistance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetic Acid</td>
<td>10%</td>
<td>28°C</td>
<td>Excellent</td>
</tr>
<tr>
<td>Beer</td>
<td>-</td>
<td>28°C</td>
<td>Excellent</td>
</tr>
<tr>
<td>Blood</td>
<td>-</td>
<td>28°C</td>
<td>Excellent</td>
</tr>
<tr>
<td>Citric Acid</td>
<td>20%</td>
<td>28°C</td>
<td>Excellent</td>
</tr>
<tr>
<td>Detergents-acidic</td>
<td>All</td>
<td>28°C</td>
<td>Excellent</td>
</tr>
<tr>
<td>Detergents-alkaline</td>
<td>All</td>
<td>28°C</td>
<td>Excellent</td>
</tr>
<tr>
<td>Fats-animals and vegetable</td>
<td>-</td>
<td>28°C</td>
<td>Excellent</td>
</tr>
<tr>
<td>Fish Oils</td>
<td>-</td>
<td>28°C</td>
<td>Excellent</td>
</tr>
</tbody>
</table>
**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**
Substrate concrete or screed should be 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 Epoxymortar (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**
Shake Part A Polyol before pour into the barrel; pour all the Part B and Part A into the clean mixing barrel and mix for 5 second by using a suitable electrical stirrer (with 750watt High Power Mixer), then only add in Part Filler WG (0.5kg) and Plain Filler (13.5kg) powder to mix at least 10 second, then only add in Filler HF (12kg) to mix at least 40 second – 60 second until it fully achieved a homogeneous consistent.

**Application**
- Apply Primer for sealing well the substrate porosity.
- Within 14~18 hours; of primer cured, then only apply Mortar UT HF as scratch coat (within 1mm 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 screed box on by hand trowel as per requirement 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](http://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:
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](http://se.laticrete.com)