

PRODUCT DATA SHEET

JOINT REPAIR MORTAR

**HYBRID POLYURETHANE MORTAR, 30-50mm REPAIRS
SELF-PRIMING AND SEALING, QUICK INSTALLATION
EXCELLENT RESISTANCE TO HOT WATER AND
FREEZER CONDITIONS
STRENGTHENS JOINT CUT EDGES**

PRODUCT DESCRIPTION

A multi-purpose, solvent-free hybrid polyurethane repair mortar, prepackaged into 5 components. The kit is mechanically mixed together and poured into prepared cavities, levelled with a steel trowel and sets in 4 hours.

USES

Stonclad UT-JRM is designed for repairing broken edges of concrete joints and is also suitable for the patching of industrial floors exposed to conditions of impact, abrasion and high traffic. The product renders the repaired surface level, non-slip and waterproof, making it ideal for wet or dry areas in the food, beverage, pharmaceutical and chemical industries. The rapid set allows for quick return to service, which is demanded in many warehouse, storage and process facilities.

RESISTANCE

Weather: Excellent resistance, surface will discolour.

Acids: Resists splash and spillage of organic and inorganic acids of up to 30% concentrations.

Alkalies: Resists splash and spillages.

Petroleum Products: Resists most products

Refer to Stonclad UT Chemical Resistant Chart for specific chemicals.

PACKAGING AND COVERAGE

Primer: No primer required

Stonclad UT-JRM: 16 Litre kit consists of:

Stonclad UT 950 Parts A, B & C	=	4.45kg Resin + 20kg Aggregate
Stonclad UT 950C Colour Pack	=	0.90kg Coloured Powder
Pro-Struct 53-MC	=	12,5kg 6mm Stone

9 Linear Metres at 30mm deep, 60mm wide / 16 litre kit

TYPICAL PROPERTIES AT 25°C

Finish	Matt textured
Colour	Grey
Consistency	Stiff Mortar
Theoretical Coverage Per Coat	9 linear metres at 30mm deep, 60mm wide per 16 litre kit
No. of Components	5
Pot Life	10 Minutes
Apply Over	Prepared, rough and dust-free concrete
Apply By	A straight edge
Curing Time	4 Hours initial set 12 Hours, light traffic 24 Hours, full cure
Shelf Life	12 Months
Application Temperature Range	10°C to 30°C
Compressive Strength	Approximately 60 MPa
Adhesion to Concrete	> 2.5 MPa (concrete failure)
Temperature Resistance	-20 to 120°C
VOC Content	7g/l

Equipment Required:

2 x 25lt Mixing buckets
High torque 600 rpm mixer
150mm Spiral impeller
Clock with second hand
Joint cutting equipment
Straight edge and steel trowel

PLACEMENT GUIDELINES

1. SURFACE PREPARATION:

All surfaces in contact with Stonclad UT-JRM shall be dry, free of oil, grease and contaminants. Saw-cut concrete within the outlines of the repair cutting 30mm deep perpendicular to the surface to avoid feather edges. Cut 60mm on either side of the joint.

Remove all concrete within the perimeter to a depth of 30mm or beyond until a well bonded main aggregate in the substrate is reached. Sweep clean and vacuum to remove dust and loose particles.

Demarcate either side of the joint so that it can be recut once the repair has set. If only one side is to be repaired, a formed "Jointex" tape is used.

2. MIXING:

Empty entire contents of Stonclad UT Parts A & B into a 25 litre drum. Using a high torque 600 rpm mechanical mixer fitted with a large mortar spiral impeller, blend A & B for 60 seconds. Whilst stirring, add Part C Pigment Pack and the 20kg bag of Part C into the drum and mix for a further 60 seconds.

Whilst still mixing, add the 12,5kg Pro-Struct 53MC Stone to the drum and mix for a further 30 seconds, ensuring all aggregates are thoroughly wetted. Immediately send the mixed material to the application area and start mixing in another drum if extent of repair requires it.

3. PLACEMENT:

Whenever possible, place Stonclad UT-JRM to full depth from one side of the repair to the other, and up to the preformed foam shutter previously placed in the joint.

Placement must be no longer than 750mm longitudinally along the length of joint.

The repair mortar is levelled and compacted with a straight edge and steel trowel to smooth the surface level with the existing floor. The trowel can be wiped clean with Carboline Thinner # 10 during the surface smoothing process. Do not re-trowel the material 10 minutes after application.

4. CURING:

Allow to cure between 4 to 12 hours at 25°C before recutting the joints and sealing with StonCor Africa specified sealer. The repair can be exposed to light foot traffic after 12 hours and vehicle traffic after 24 hours.

NOTE: Due to the natural behavior in the curing process, Stonclad UT-JRM can show slight aesthetic defects like minor pinholes in the surface. These defects do not harm the chemical, mechanical or thermal properties of this industrial repair.

CAUTION: MAY CONTAIN FLAMMABLE SOLVENTS. KEEP AWAY FROM SPARKS AND OPEN FLAMES. IN CONFINED AREAS WORKMEN MUST WEAR FRESH AIRLINE RESPIRATORS. HYPERSENSITIVE PERSONS SHOULD WEAR GLOVES OR USE PROTECTIVE CREAM. ALL ELECTRONIC EQUIPMENT AND INSTALLATIONS SHOULD BE MADE AND GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. IN AREAS WHERE EXPLOSION HAZARDS EXIST, WORKMEN SHOULD BE REQUIRED TO USE NONFERROUS TOOLS AND TO WEAR CONDUCTIVE AND NONSPARKING SHOES



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