

Restec Self Levelling Mortar Technical Datasheet

1. Self Levelling Mortar

1.1. Description

Restec Self Levelling Mortar is a trowel-applied, rapid setting, polymethyl methacrylate (PMMA) resin-mortar used as a traffic wearing layer applied direct to structural concrete substrates. Restec Self Levelling Mortar may also be used as a patch and repair material over approved substrates prior to application of Restec roofing and waterproofing systems.

1.2. Properties and Advantages

- Versatile product – thick-film layer and equalising layer
- Product for areas exposed to mechanical loads (e.g. from pedestrians, vehicles etc.)
- Cost-efficient solution for surfacing floor areas without cracks or with only hairline cracks
- Fully bonded to the substrate, therefore no flow paths underneath for water
- Easy and fast application
- Fast-curing
- Can also be applied at sub-zero temperatures
- Solvent-free

1.3. Components

Restec Self Levelling Mortar is created by combining Restec Self Levelling Mortar Part A-Resin and Part B-Filler. Restec Self Levelling Mortar also requires Restec Powder Hardener for curing.

Code	Item	Pack Size
122103	Restec Self Levelling Mortar Part A – Summer Resin	10kg
122105	Restec Self Levelling Mortar Part A – Winter Resin	10kg
122104	Restec Self Levelling Mortar Part B – Filler	23kg
102013	Restec Powder Hardener	1kg

1.4. Limitations

Product	Temperature Range (in °C)		
	Air	Substrate	Material
Summer Mix	+3 to +35	+3 to +50*	+3 to +30
Winter Mix	-5 to +25	-5 to +30*	+3 to +20

*The substrate temperature must be at least 3 °C above the dew point during application and curing. The substrate temperature must not be less than +3 °C if a topping is applied to the surface. Reaction problems can occur at lower temperatures.

The application temperature is between -5° - 35°C. The substrate temperature at application should be between -5°- 50°C.

Recommended minimum cure and maximum re-coat times should always be followed. When mortar is left exposed to the elements for longer than the recommended period, contaminated, or damaged, the mortar must be properly cleaned, addressed or repaired as necessary.

Moisture

- The relative humidity must be $\leq 90\%$.
- The surface to be coated must be dry and ice-free.
- The surface must be protected from moisture until the coating has hardened.

1.5. Mixing and Application

Coverage Rate: approx. 4.00 kg/m² for a smooth, even substrate

Summer Mix	Winter Mix
Restec Self Levelling Mortar Part A – Summer Resin 10kg	Restec Self Levelling Mortar Part A – Winter Resin 10kg
Restec Self Levelling Mortar Part B – Filler 23kg	Restec Self Levelling Mortar Part B – Filler 23kg
Restec Powder Hardener 0.2kg	Restec Powder Hardener 0.4kg

Before applying Restec Self Levelling Mortar, ensure that substrates are prepared correctly in accordance with the relevant application recommendations.

Using a slow-speed (200 to 400 rpm) mechanical agitator, thoroughly mix the entire container of Part A-resin then slowly add the entire contents of Part B-Filler to the resin and continue mixing for 2 - 5 minutes or until a uniform lump-free mortar mixture is achieved. Only catalyse the amount of material that can be used within 10-15 minutes. Add the pre-measured catalyst to the mortar mixture and stir for 2 minutes or 4 minutes when temperatures are below 10°C. Refer to the catalyst information found on this TDS.

After mixing, apply catalysed mortar to substrate at the required consumption using a v-notched trowel, steel rake, squeegee, or nub roller. Mortar should be uniformly spread across the substrate and finished with a pin roller to knock down any high spots and trapped air.

1.6. Information

	Summer Mix (at 20°C, 2% Catalyst)	Winter Mix (at 3°C, 4% Catalyst)
Pot Life	Approx. 15 Mins	Approx. 20 Mins
Rainproof	Approx. 30 Mins	Approx. 45 Mins
Can be walked on / overcoated	Approx. 1 Hour	Approx/ 75 Mins
Curing Time	Approx. 3 Hours	Approx. 6 Hours

1.7. Physical Properties

Description	Property
Colour	Pebble Grey
% Solids	100
Density @ 23°C, (g/ml)	1.8
Viscosity (cps) @ 25°C & 60 RPM	77 (690)
Shore A Hardness	91
VOC g/L	< 5
Note: Data represented above are average values unless noted otherwise.	

1.8. Safety & Handling

Please refer to the relevant Safety Data Sheet (SDS) prior to handling or use. Use materials in strict accordance with published recommendations. Dispose of waste materials in accordance with any local regulation.

1.9. Storage

Store products sealed in their original airtight container and in a cool, dry and frost-free place. The unopened product has a shelf life of at least 6 months after delivery. Direct sunlight on the containers should be avoided, including on site. After removing some of the contents, reseal the containers so they are airtight.

1.10. Technical Assistance

For further information, please contact Restec Technical Services on 0845 4504 193, More information can also be found at www.restecroofing.co.uk