

Fast-curing PMMA self-levelling concrete repair mortar

Product Description

Instafix SL is a fast-curing, solvent-free, three-component polymethyl methacrylate (PMMA) mortar with high flexibility and self-smoothing properties. It is engineered for rapid and durable repairs in critical, high-traffic areas.

Its advanced formulation enables a setting time of approximately 30 minutes and develops high compressive strength, comparable to structural concrete, within just 2 hours after application.

Instafix SL is ideally suited for demanding environments where minimal downtime and high load resistance are essential.

Key Features

- Rapid setting: ready for light traffic in 30 minutes at 40°C.
- Achieves compressive strength > 300 KSC within 4 hours.
- Excellent durability and impact resistance for demanding environments.
- Minimizes Foreign Object Debris (FOD) risks in airport applications.
- Wide temperature application range: from 5°C to 40°C.

Areas of Application

- Highway intersections and ramps.
- Airport taxiways and runways.
- Commercial building access ramps and loading zones.

Rate of use

* **Theoretical consumption without allowance for loss.**

Surface profile	Thickness	Rate of use	
		Kg/m ²	m ² / 15.15 kg (set)
Theoretical flat surface	2 mm.	5	3

** The consumption rate may vary depending on the depth and surface condition.

Method of Application

1. Surface Preparation

- The concrete surface to be prepared must be sound & clean. It should be free of dust, loose mortars, oil, grease & coatings

2. Priming

- Prime the substrate with one coat of **PMMA Sealer** and allow it to dry for approximately 1 hour.

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3. Mixing

- Add Part B (Powder) into Part A (Resin), using a speed (500 rpm) mechanical agitator for 2-3 minutes.
- Then add BPO in the mixture of Part A and Part B while stirring at a low speed. Mix for up to 30 seconds.

4. Applications

- After mixing thoroughly, pour the mixture of **Instafix SL** onto the prepared surface and level it using a trowel or rake within 15 minutes. The product will flow and self-level to achieve a smooth finish.
- Allow to cure for approximately 2 hours.

5. Precautions & Limitations

- Working temperature range: 10°C to 40°C.
- Mixing time of BPO is not over 30 seconds.

Technical Information

Properties	Standard/ Test Method	Test Result
Appearance	-	Grey mortar
Specific Gravity @25°C	-	1.7 g/ml
Pot Life	ASTM D2471	15-20 mins
Initial Curing Time @25°C	-	20 mins
Trafficable Time @25°C	-	2 hours
Full Curing Time @25°C	-	1 day
Shore D Hardness (Full cured)	ASTM D2240	32
Tensile Strength	ASTM D638	5 MPa
Flexural Strength	ASTM D790	11.3 MPa
Adhesion to concrete @7days	ASTM D4541	6.2 MPa
Abrasion Test	ASTM D4060	213 mg/1,000 cycles /1kg loads/cs17 wheels
Chemical Resistance	ASTM D543	Fuels & oils, chlorine water, sea water, wastewater, glycerin
Compressive strength (KSC)	ASTM C579	
- 1 hr.		204.97
- 2 hrs.		223.32
- 3 hrs.		232.50
- 24 hrs.		283.49
- 3 days		304.92
- 7 days		308.93
- 28 days		313.02

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Packaging

- Set: 15.15 kg. (Part A: 5 kg., Part B: 10 kg., BPO: 0.15 kg.)

Shelf Life & Storage

- Shelf life is 6 months from the date of manufacturing. Store in a cool & dry place in unopened conditions.

Health & Safety Precautions

- Highly flammable. Keep away from open flames and sources of heat.
- Toxic, Avoid contact with skin, inhalation, and ingestion.
- Keep out of reach of children. Wear appropriate PPE including vapor mask, safety goggles, gloves, and protective clothing during application.
- In case of contact with skin or eyes: Rinse immediately with clean water.
- If accidentally swallowed: **Do not induce vomiting.** Seek medical attention immediately.
- Reseal all containers after use and ensure the product is stored as instructed.

Disclaimer

The product information and the recommendations relating to the application and end-use of products are based on's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Reserves the right to change the properties of its products without notice, so the company does not assume liability of any legal from this product information.



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