



InnoChem
Smart Solutions, Strong Foundations

1ST FLOOR, GALA NUMBER 119, VAPI CO-OP INDL SOCIETY, GIDC, PLOT NUMBER 99, VAPI, VALSAD 396195.

INNOCHEM REPAIR MORTAR.

RESILIENT. PROTECTIVE. ADVANCED.

1.DESRIPTION

INNO RM is a single-component, cementitious, polymer-modified, non-reactive, fiber-reinforced repair mortar designed to deliver outstanding performance. It offers excellent resistance to corrosion, carbonation, and shrinkage cracking.

INNO HBMR can be applied in thicknesses ranging from 10 mm to 40 mm on vertical surfaces, and up to 25 mm for overhead applications. It is suitable for application using a hand trowel or a specialized mortar spray machine.

2.AREA OF APPLICATION

INNO RM is a cementitious repair compound designed to restore damaged and deteriorated concrete in both structural and cosmetic applications. It is ideal for use in situations requiring superior resistance to corrosion and carbonation.

- Suitable for repairing structural elements in industrial, commercial, and residential buildings.
- Repairs of reinforced or pre-stressed beams and columns.
- Restoration of structural components exposed to repetitive loading.
- Repair of jetties and other marine structures subjected to harsh environmental conditions.

3.METHOD OF APPLICATION

3.1 SURFACE PREPARATION

All laitance and weak concrete must be removed by chipping to expose a sound, rough surface. The substrate should be clean, solid, and free of oil, grease, dust, or any contaminants. Special attention should be given to areas such as the underside of bed plates, bolts, pipes, or any concrete surfaces that will come in contact with Inno RM.



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After cleaning, thoroughly saturate the surface with clean water. Before applying the mortar ensure that there is no standing water on foundations, within bolt holes, or on any surfaces to be repaired or encapsulated.

3.2 APPLICATION

Apply Inno RM using a steel trowel onto a properly prepared saturated surface-dry (SSD) concrete substrate. The product can be applied in thicknesses ranging from 10 mm to 40 mm. For applications exceeding 40 mm in thickness, apply additional layers after allowing the previous layer to cure for 24 hours.

3.3 MIXING

For a 25 kg pack, add approximately 3.5 to 4 liters of clean water into the mixer. Gradually add the entire contents of the powder while continuously mixing for 1 to 2 minutes. Depending on the ambient temperature and the consistency required, a slight adjustment in the amount of water may be necessary.

Job site conditions, such as temperature, may call for further water adjustments to achieve the optimal consistency. It is advisable to prepare small trial batches beforehand to determine the most suitable working consistency for the application.

3.4 CURING

Curing is critically important. It should commence within 20–24 hours, depending on the prevailing climatic conditions. Curing may be performed by sprinkling water 4–6 times daily for a period of 7–10 days, especially on vertical and overhead surfaces. When water curing is not feasible, a good quality curing compound may be used as an alternative.



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4. TECHNICAL DETAILS

PARAMETER	RESULT
Appearance	Grey Powder
Compressive Strength N/mm ² at 27°C (W/P = 0.15) - 1 Day	>15
Compressive Strength N/mm ² at 27°C (W/P = 0.15) - 7 Days	>50
Compressive Strength N/mm ² at 27°C (W/P = 0.15) - 28 Days	>60
Free Linear Expansion (ASTM C 827)	0-2%
Flexural Strength, 28 days N/mm ² at 27°C	>7
Bond Strength, 28 days N/mm ² at 27°C	>2
Pot Life, at 27°C, minutes	>30
Fresh Wet Density, kg/m ³	2150 - 2250
Material required for 1m ³ Volume, kg	1850 - 1950

5. SAFETY

- Always wear protective gear such as gloves, safety shoes, and goggles while handling or using the product.
- If the product comes in contact with eyes or mouth, rinse thoroughly with plenty of clean water and seek immediate medical attention.

6. SHELF LIFE & STORAGE

The product has a shelf life of 12 months from the manufacturing date when stored in its original, unopened, and sealed packaging under dry conditions at temperatures between 5°C and 40°.

**Product information given by company is shared in good faith for better understating of the product. It is meant to be used as a general guideline. There is no guarantee or warrantee undertaken if the output varies. These things depend on the applicator, the type of surface and other on-site related factors. We strongly recommend that the user does trials prior to full scale usage. The company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of products.