



HYDA CON
Innovative chemical solutions

Technical Data Sheet

INSTAPROOF MM 12
WATERPROOFING ADMIX

ABOUT INSTA PROOF MM 12

INSTA PROOF MM 12 is a high-performance, single-component liquid additive designed to enhance the durability and waterproofing of cement-based concrete, plaster, and mortar systems. When added to the gauging water, it significantly improves compressive strength, reduces permeability and shrinkage, and increases resistance to corrosion—making it an essential component in waterproofing applications across a wide range of structures.

INSTA PROOF MM 12 conforms to **IS 2645:2003**.

SURFACE APPLICATION MATERIALS

-  Cement-based concrete
-  Cement mortar
-  Cement plaster

RECOMMENDED SURFACES / SUBSTRATES

-  Roof slabs & concrete
-  Cement screeds
-  Internal & external plaster
-  Water-retaining structures (tanks, sumps, drains)
-  Wet areas like bathrooms & balconies

APPLICATION AREAS

-  Residential & commercial buildings
-  Underground basements
-  Swimming pools & water tanks
-  Terraces & balconies
-  Renovation & new construction projects

PRODUCT HIGHLIGHTS

- ❖ **INTEGRAL WATERPROOFING** – Reduces permeability by limiting capillary absorption in hardened concrete/mortar.
- ❖ **ENHANCED DURABILITY** – Increases life span and resistance to environmental deterioration.
- ❖ **CORROSION PROTECTION** – Reduces chloride penetration, protecting reinforcement steel.
- ❖ **WORKABILITY IMPROVER** – Enhances mix smoothness for easier application.

- ❖ **REDUCES CRACKING & SHRINKAGE** – Minimizes early shrinkage and hairline cracks.
- ❖ **COMPRESSIVE STRENGTH BOOSTER** – Improves the long-term load-bearing capacity.
- ❖ **SAFE FOR STEEL** – Contains negligible chloride levels.
- ❖ **COMPLIES WITH IS 2645:2003** – Tested and approved under Indian Standard for integral waterproofing.

TECHNICAL DATA

PROPERTY	TEST METHOD	REQUIREMENT	INSTA FIX MM 12 VALUE
Initial Setting Time	IS 2645:2003	Reduction \geq 25% or \geq 30 min faster than control	Pass
Final Setting Time	IS 2645:2003	\leq 600 mins or \geq 25% increase from control	Pass
Water Permeability	IS 2645:2003	\leq Half of control sample	Pass
Chloride Content	IS 6925:1973	\leq 2%	0.018–0.05%
Compressive Strength	IS 2645:2003	\geq 90% of control or as per standard cement	Pass

Values are typical and based on lab testing. Actual performance may vary with site conditions and practices.

APPLICATION INSTRUCTIONS

MIX PREPARATION

1. Shake the container before use.
2. In a clean bucket, add 200 ml of INSTA PROOF MM 12 to the mixing water intended for 50 kg of cement.
3. Mix thoroughly and let it stand for 3–5 minutes.
4. Add the prepared solution to the dry concrete/plaster mix and mix uniformly.

Note: Never add the product directly to dry cement or mix.

CURING

Follow standard curing practices appropriate for the application and environmental conditions.

PRO TIPS & PRECAUTIONS

- ✓ Always use accurate dosage for consistent results.
- ✓ Do not overdose; excess may affect setting properties.
- ✓ Ensure thorough mixing to avoid segregation.
- ✓ Apply only between 5°C to 45°C ambient temperature.
- ✓ Stir well before use in cold conditions.

PRODUCT SPECIFICATIONS AND STORAGE GUIDELINES

PACKAGING : 200 ml

COLOUR: Free-flowing brown liquid

SHELF LIFE: 18 months in unopened original packaging

STORAGE:

- Store between +10°C to +35°C in a dry, shaded area.
- High ambient temperature may reduce shelf life.

COVERAGE DETAILS

- **DOSAGE**: 200 ml per 50 kg cement
- **COVERAGE**:
 - For 1 m³ concrete with approx. 300–350 kg cement → 1.2–1.4 L of INSTA PROOF MM 12
 - Coverage may vary based on mix design, application method, and environmental factors.

FACTORS AFFECTING COVERAGE

- Cement content and water-cement ratio
- Surface porosity and roughness
- Application method and workmanship
- Ambient conditions and curing practices

SAFETY AND APPLICATION GUIDELINES FOR INSTA PROOF MM 12

1. PERSONAL PROTECTION

- Wear gloves, goggles, and mask during handling.
- Keep out of reach of children.

2. EMERGENCY PROCEDURES

- Skin Contact: Wash thoroughly with soap and water.
- Eye Contact: Rinse with clean water for several minutes and consult a doctor if irritation persists.
- Ingestion: Rinse mouth, drink water, and seek medical help if required.

Inhalation: Move to fresh air.

PERFORMANCE LIMITATIONS

- Not a substitute for surface-applied waterproofing membranes.
- Must be used as part of a well-designed mix system.
- Ineffective if added directly to dry mix or used improperly.
- Final results may vary with poor site practices or inadequate curing.