



HYDA CON
Innovative chemical solutions

Technical Data Sheet

HYDAPROOF C 2

ABOUT HYDAPROOF C2

HYDAPROOF C2 is a two-component, polymer-modified, flexible cementitious waterproofing coating specially formulated for concrete and masonry surfaces. It is supplied in ready-mix kits (2 parts) — Part A (white liquid) and Part B (grey powder). When mixed and applied as per instructions, the cured film forms a seamless, flexible, and durable waterproof barrier, ideal for interior and exterior applications in residential and commercial projects.

HYDAPROOF C2 meets and exceeds the performance standards –

ASTM D 7234

DIN 1048

EN 12390-8

IS 10500

SUBSTRATES

- Plaster finishes
- Concrete and masonry
- Cement-based screeds
- Lightweight concrete blocks

RECOMMENDED AREAS

- Concrete roof slabs
- Brick masonry
- Wet areas like bathrooms, kitchens, and showers
- Cement plastered walls
- Swimming pools, water tanks
- Fountains and domestic terraces

PRODUCT HIGHLIGHTS

- ❖ **EASY TO APPLY** – Can be applied with a brush or roller
- ❖ **FLEXIBLE AND CRACK-BRIDGING** – Designed to bridge cracks in concrete/surfaces
- ❖ **EXCELLENT ADHESION** – Adheres strongly to concrete and masonry substrates
- ❖ **WATERPROOF AND LEAKAGE PREVENTION** – Creates a seamless waterproof surface
- ❖ **SUITABLE FOR POTABLE WATER CONTACT** – Conforms to IS10500 for water contact

- ❖ **ECO-FRIENDLY & LOW VOC** – Low VOC formulation ensures healthy indoor air
- ❖ **INTERIOR & EXTERIOR USE** – Works well in bathrooms, roofs, tanks, pools, etc.

TECHNICAL DATA

PROPERTY	TEST METHOD	REQUIREMENT	HYDAPROOF C2 VALUES
Appearance	—	—	Part A - White Liquid
			Part B - Grey Powder
Density	—	—	2 ± 0.05 kg/litre
Application Temperature (Substrates and Materials)	—	—	10°C to 40°C
Mixing Ratio (w/w)	—	—	1 part Liquid (Part A) : 3 parts Powder (Part B)
Pot Life of Mixed Material	—	—	Minimum 1 hours
Touch Dry	—	—	30 to 40 minutes
Over-coating Interval	—	—	4 to 6 hours
Colour of Cured Film	—	—	Grey
Adhesion on Concrete	ASTM D 7234	> 0.5 N/mm ²	> 0.5 N/mm ²
Resistance to Water Penetration	DIN 1048	No Water Penetration	Passed
Water Permeability @ 5 bar	EN 12390-8	NIL	NIL
Water Portability	IS 10500	Portable	Portable

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION GUIDELINES

1. CLEAN & STABLE SURFACE

Ensure the substrate is structurally sound, clean, and free from dirt, oil, grease, loose particles, or any other foreign materials to ensure adequate adhesion.

2. EVEN & LEVEL BASE

Make sure the surface is uniform and free of major undulations to allow smooth application of the waterproofing membrane and subsequent tile installation.

3. DRY & MOISTURE-CONTROLLED

Surface should not have excessive moisture. While slightly damp surfaces are acceptable, overly wet substrates should be avoided.

4. **PRE-WET** Slightly dampen before application of **HYDAPROOF C2**, ensure no standing water remains.

5. CURE NEW CONCRETE

Newly laid concrete must be adequately cured—ideally for 14 days—before application to ensure proper bonding.

6. PRESERVE EXPANSION JOINTS

All moving junctions and pipe penetrations should be sealed with appropriate flexible sealant. Use **HYDAPROOF C2** with reinforcing fabric at such areas.

HOW TO MIX THE ADHESIVE

1. MIXING RATIO

HYDAPROOF C 2 is a two-component system. Slowly add the powder component into the liquid (acrylic-modified emulsion) and mix until a smooth, lump-free slurry is formed.

2. BLENDING PROCESS

Mix using a slow-speed mechanical stirrer for a homogeneous blend. Avoid high-speed mixing that may introduce air bubbles.

3. RESTING PERIOD

Allow the slurry to stand for 5 minutes before use to release trapped air.

4. APPLICATION CAUTION

Do not dilute with water or add extra materials. Only mix what is required within the pot life and avoid retempering hardened material.

PRO TIPS AND PRECAUTIONS

- ✓ Protect the coated surface from rainfall and foot traffic for at least 24 hours after application.
- ✓ Use the product as supplied; do not dilute with water or add sand or cement during mixing.
- ✓ Maintain proper mixing by adding the powder into the liquid component gradually using a mechanical stirrer.
- ✓ Allow the mixture to rest for 5 minutes before use to release trapped air.
- ✓ Do not apply the coating when ambient temperature is below 10°C or above 40°C.
- ✓ Ensure the substrate is clean, dry, and free from loose particles, oil, grease, or any foreign materials before application.
- ✓ Fill surface cracks and defects with appropriate crack filler or polymer-modified mortar before application.
- ✓ Conduct a water-tightness test (pond test) only after 72 hours of drying time to ensure proper performance.

- ✓ Fix tiles only after 7 days of curing and use adhesives that comply with EN 12004:2017/C2 standards.
- ✓ Clean tools and equipment with clean water immediately after use to prevent material hardening.

PRODUCT SPECIFICATION AND STORAGE GUIDELINES

AVAILABLE PACKAGING

4 kg dual-component kit (powder + liquid)

COLOUR: Grey when mixed

SHELF LIFE: 12 months in sealed condition under proper storage

STORAGE LIFE:

- Store in original, unopened packaging
- Keep in a cool, dry place (between 10°C and 30°C)
- Protect from:
 - Direct sunlight
 - Damp conditions
 - Temperature extremes (below 10°C or above 40°C)

COVERAGE DETAILS

- Approx. 1.5 - 2.25 m² per 4 kg kit in two coats (at 1–1.5 mm thickness)
- Equivalent to 0.45–0.65 m²/kg depending on substrate
- Maintain storage temperature between 10°C and 35°C
- Avoid direct sunlight and high humidity during storage

FACTORS AFFECTING COVERAGE:

- Surface smoothness, porosity, and profile
- Application technique (roller/brush)
- Number of coats and method of reinforcement

SAFETY AND APPLICATION GUIDELINES HYDAPROOF C 2

1. PERSONAL PROTECTION

- Wear protective gloves, clothing, and eye protection while handling the material.
- Keep out of reach of children and store the product in a covered area, away from direct sunlight.
- Intended for professional use only – not recommended for general household application.

2. EMERGENCY PROCEDURES

- In case of contact with skin, wash immediately with plenty of clean water.
- If the product comes in contact with eyes, rinse thoroughly and seek medical advice.

3. MIXING INSTRUCTIONS

- HYDAPROOF C 2 is a two-component, pre-measured product.
- Add the powder component gradually into the liquid part and mix using a mechanical stirrer until a smooth, homogeneous slurry is achieved.
- Do not add water or other materials such as cement or sand. Use the mixed material within the recommended pot life.

4. SURFACE PREPARATION

- The substrate should be clean, dry, and sound.
- Remove all oil, grease, dust, and other foreign matter. Fill all cracks and surface defects using suitable repair mortar.
- Seal all junctions with a flexible sealant before coating.
- Surface must not be gypsum, wood, or other unstable substrates.

5. INSTALLATION & PROTECTION

- Apply the first coat of **HYDAPROOF C 2** using a brush or roller.
- Reinforce vulnerable areas like corners, pipe joints, and drain flanges with 40 gsm fleece or geotextile.
- Once the first coat is dry (approx. 4–6 hrs), apply a second coat perpendicular to the first.
- Sprinkle quartz sand (30–60 mesh) on the second coat while still wet to promote adhesion of tiles or plaster.
- Protect the membrane with mortar, plaster, or tiles after curing.
- Avoid direct exposure to rainfall or foot traffic for 24 hours post-application.

PERFORMANCE LIMITATIONS

- HYDAPROOF C 2 is intended as a waterproof coating under tiles or protective layers – not for use as a top-finish or walking surface.
- Not suitable for structural waterproofing.
- Do not apply in temperatures below 10°C or above 40°C.
- The cured film must not exceed a thickness of 2 mm in two coats.
- Product performance may be affected in cold, damp, or high-humidity conditions.
- Not suitable for use over expansion joints or as an exposed roofing membrane.