



**HYDA CON**  
Innovative chemical solutions

Technical Data Sheet

**HYDAPOXY 001**  
EPOXY GROUT SINGLE PART

## ABOUT HYDAPOXY 001

**HYDAPOXY 001** is a professional-grade, ready-to-use grout based on advanced dispersion technology, specifically designed for grout joint widths from 1mm to 6mm. It offers long-lasting color consistency and stain protection, making it highly suitable for residential and commercial interior floor and wall applications. **HYDAPOXY 001** delivers superior ease of use, water cleanability, and excellent non-sag performance on both vertical and horizontal surfaces. Its durable composition ensures resistance to cracking, powdering, and chemical exposure while maintaining vibrant, color-stable grout lines for years to come.

Complying with **EN 13888:2022** standards, **HYDAPOXY 001** is the ideal solution for environments demanding aesthetic appeal, easy maintenance, and superior durability in daily usage conditions

## RECOMMENDED SURFACES

- Vitrified Tiles / Porcelain Tiles
- Granite
- Polished Marble
- Engineered Marble
- Glass Tiles
- Ceramic Tiles
- Glass Mosaic Tiles
- Limestone & Sandstone
- Cobble Stone
- Terracotta Tiles

## APPLICATION AREAS

- Residential & Institutional Kitchens
- Washrooms & Clean Rooms
- Schools & Educational Institutes
- Internal Facades
- Cafeterias & Food Courts
- Hospitals, Operation Theatres, Laboratories
- Podium Slabs, Driveways, and Atriums

## PRODUCT HIGHLIGHTS

- ❖ **SINGLE COMPONENT** – Ready-to-use formulation simplifies installation without mixing
- ❖ **NON-SAG FORMULA** – Ideal for walls and floors, preventing slumping during application
- ❖ **EASY TO INSTALL AND WATER CLEANABLE** – Hassle-free application and maintenance with water wipe-down
- ❖ **100% COLOR STABILITY** – Maintains original color and uniformity without fading
- ❖ **CHEMICAL & STAIN RESISTANT** – Protects against spills, dirt, and chemical exposure
- ❖ **NON-CRACKING OR POWDERING** – Durable and resilient against shrinkage and surface degradation
- ❖ **SUITABLE FOR JOINTS OF 1MM TO 6MM** – Perfect for narrow to medium grout joints
- ❖ **LOW VOC** – Environmentally friendly with minimal emissions for healthier spaces

## TECHNICAL DETAILS

### EN / ISO DATA

PROPERTY	TEST METHOD	REQUIREMENT	HYDAPOXY 001 VALUES
Abrasion Resistance	EN 13888-2:2022, 9.4	< 350 mm <sup>3</sup>	< 349 mm <sup>3</sup>
Flexural Strength After Dry Storage	EN 13888-2:2022, 9.1	-	2.6–3.3 MPa
Flexural Strength After Freeze-Thaw Cycles	EN 13888-2:2022, 9.1	-	2.0–3.5 MPa
Compressive Strength	EN 13888-2:2022, 9.1	-	7–11 MPa
Compressive Strength After Freeze-Thaw Cycles	EN 13888-2:2022, 9.1	-	6–9 MPa
Shrinkage	EN 13888-2:2022, 9.3	≤ 3 mm/m	≤ 2.5 mm/m
Water Absorption After 30 Minutes	EN 13888-2:2022, 9.2	< 1 g	< 1 g
Water Absorption After 240 Minutes	EN 13888-2:2022, 9.2	< 1 g	< 1 g

### PERFORMANCE PROPERTIES

- **Specific Gravity:** 1.70
- **Touch Dry Time:** 5 to 10 minutes
- **Pot Life:** 30 minutes
- **Joint Width:** 1 mm to 6 mm
- **Initial Cleaning:** 5 minutes

- **Final Cleaning:** 16 to 24 hours
- **Light Foot Traffic:** After 24 hours
- **Full Traffic:** 3 days
- **Full Cure:** 14 days

#### TEMPERATURE RANGE AND CURE TIMES

FLOOR TEMPERATURE	TIME TO LIGHT TRAFFIC	TIME TO HEAVY TRAFFIC	FULL CURE
50°F (10°C)	72 hours	4–5 days	28 days
60°F (16°C)	48 hours	4–5 days	14 days
70°F (21°C)	36–48 hours	3 days	14 days
80°F (27°C)	24 hours	3 days	14 days
90°F (32.2°C)	18–24 hours	2 days	7–14 days

#### APPLICATION INSTRUCTIONS

##### SUBSTRATE PREPARATION GUIDELINES

1. **CLEAN & STABLE SURFACE** – Ensure the surface is structurally sound, free from dust, oil, grease, curing compounds, sealers, or any loose particles that may affect bonding. Any contaminants should be mechanically removed before installation.
2. **DRY & MOISTURE-CONTROLLED** – The substrate must be dry and moisture-controlled. For concrete, perform a water drop test—if water is absorbed, the surface is ready. If it beads, surface contaminants must be removed.
3. **PRE-WET IF NECESSARY** – Slightly dampen dry, dusty concrete or masonry surfaces before tiling. Ensure no standing water is present.

##### HOW TO MIX THE ADHESIVE

1. **BLENDING PROCESS** – Open the container and mix using a margin trowel or spatula by hand to achieve a smooth, homogeneous consistency. Use of mechanical mixers or drill mixers is strictly not recommended to avoid air entrapment.
2. **RESTING PERIOD** – After mixing to uniformity, allow the adhesive mixture to rest for 2–3 minutes before beginning application. Close the container tightly if there is a need to pause work, to maintain reusability within shelf life.
3. **APPLICATION CAUTION** – Use the mixed adhesive within its pot life of approximately 30 minutes. Discard any material remaining after the pot life expires; do not attempt to retemper or remix.

## **INITIAL CLEANING (HYDAPOXY 001 CLEANING PROCESS)**

- Begin cleaning **5 minutes** after application, before grout develops a skin.
- Use only clean potable water and the two-sided sponge scrubber (pink and white) provided in the kit.
- Soak the pink side of the sponge lightly over the surface for 10-20 seconds to loosen haze.
- Lightly scrub in circular motion with minimal water. Avoid over-washing joints.
- Rinse the sponge frequently in clean water and squeeze dry before reuse.
- Clean small areas and immediately remove grout haze. Avoid pouring water directly on tiles.
- If needed, use the white nylon side to remove stubborn haze.
- Remove halos and water droplets using a lint-free damp cloth or dry sponge.
- Allow surface to dry for 16–24 hours before permitting light foot traffic.

## **INITIAL CLEANING TIME (APPROXIMATE BASED ON TEMPERATURE):**

- When temperature is between 10°C and 16°C, initial cleaning should begin after approximately 15 minutes.
- When temperature is between 17°C and 25°C, initial cleaning should begin after approximately 10 minutes.
- When temperature is between 26°C and 30°C, initial cleaning should begin after approximately 7 minutes.
- When temperature is between 31°C and 36°C, initial cleaning should begin after approximately 5 minutes.

## **FINAL CLEANING**

After 16–24 hours, if residue or haze remains:

- Use clean water or mild soap water.
- Use the white nylon side of the provided scrubber.
- Rub in circular motion, applying suitable pressure.
- Rinse scrubber periodically with clean water.
- Continue until surface is clean and free of haze.

Allow grout to fully cure for at least 3 days before exposing to heavy foot traffic or harsh conditions.

## **PRO TIPS & PRECAUTIONS**

- ✓ Ensure surface is free of oil, grease, dust, or laitance before application.
- ✓ Mix resin and hardener only in the recommended ratio – do not dilute with water or solvents.
- ✓ Use masking tape to protect grout joints and ensure clean lines.
- ✓ Do not use the adhesive to level surfaces – apply only on prepared, flat substrates.

- ✓ Clean tools and excess grout immediately with a damp cloth. Once cured, removal is difficult.
- ✓ Allow full curing (as per TDS) before exposing the area to traffic, water, or chemical exposure.
- ✓ Always test on sensitive tile surfaces (natural stone, porous tile) before full application.
- ✓ Use in well-ventilated areas to avoid inhalation of fumes during mixing and application.
- ✓ Avoid use in extreme temperatures – ideal application range: 10–35°C.
- ✓ Always refer to Technical Data Sheet (TDS) and Safety Data Sheet (SDS) for safe usage.

## **PRODUCT SPECIFICATIONS & STORAGE GUIDELINES**

### **AVAILABLE PACKAGING:**

- 1 kg

**SHELF LIFE:** Factory-sealed containers are guaranteed for **one (1) year** when stored between 15°C and 35°C

### **STORAGE CONDITIONS:**

- Keep in original packaging, tightly sealed
- Store in a dry, cool space (10–30°C)
- Avoid:
  - o Direct sunlight
  - o Freezing temperatures (<5°C)
- Exposure to moisture or humidity

## **GROUTING INSTRUCTIONS**

### **1. WAITING TIME:**

Begin grouting only after the tile adhesive has completely hardened and dried. Ensure the joints are free from spacers, dust, debris, and standing water. Allow surface to dry fully before grouting.

### **2. SURFACE CONDITION:**

Substrate temperature must be between 10°C and 32°C. In hot climates, lightly dampen the tile surface (but do not leave excess water) prior to application.

### **3. MIXING METHOD:**

Open the HYDAPOXY 001 container and mix manually with a margin trowel or spatula to achieve a uniform consistency. DO NOT use a drill mixer or add water, solvents, latex, or any other liquid.

### **4. WORKING TIME:**

Apply grout in small areas covering 12–15 sq.ft at a time to ensure cleaning can be completed within 5–7 minutes.

### **5. APPLICATION TECHNIQUE:**

Spread HYDAPOXY 001 with a sharp, firm rubber grout float, working the grout firmly into joints to fill them fully and flush with the tile surface. Remove excess grout at a 90° angle diagonally across joints to prevent pulling grout from joints.

### **6. INITIAL CLEANING:**

Begin cleaning after 5 minutes using only clean water and the sponge scrubber provided (pink side first).

Gently move across the tile surface, allowing haze to soak 10–20 seconds before wiping. Avoid excess water that can leach grout from joints.

#### **7. TEMPERATURE-BASED CLEANING TIME:**

- 10°C–16°C → Initial cleaning after 15 minutes
- 17°C–25°C → Initial cleaning after 10 minutes
- 26°C–30°C → Initial cleaning after 7 minutes
- 31°C–36°C → Initial cleaning after 5 minutes

#### **8. FINAL CLEANING:**

After 16–24 hours, if residue remains, clean with potable water or mild soap solution using the nylon scrubber side. Continue cleaning until the haze is fully removed.

#### **9. CURING TIME:**

Allow 24 hours for light foot traffic. Full traffic is permitted after 3 days. Complete curing occurs after 14 days.

#### **COVERAGE DETAILS**

- Coverage will vary depending on tile size, application technique, and trowel notch size
- Typical Coverage: ~1.2–1.4 kg/m<sup>2</sup> per mm thickness

#### **FACTORS AFFECTING COVERAGE:**

- Tile size and profile
- Trowel type and notch depth
- Surface roughness and porosity
- Application efficiency

### **SAFETY & APPLICATION GUIDELINES FOR HYDAPOXY 001**

#### **1. PERSONAL PROTECTION**

- Always wear chemical-resistant gloves, safety goggles, and suitable workwear.
- Avoid skin and eye contact.
- Keep out of children's reach.

#### **2. EMERGENCY PROCEDURES**

- SKIN CONTACT: Wash with soap and water immediately.
- EYE CONTACT: Rinse with water for 15 minutes and seek medical help.
- INGESTION/INHALATION: Do not induce vomiting. Seek immediate medical attention.

#### **3. CAUTIONS**

- Consult SDS for more safety information.
- DO NOT add water or any other liquid to the grout material.
- Protect finished work from traffic until fully cured.
- HYDAPOXY 001 Grout might irritate eyes and skin.

- Wear protective gear (gloves, long sleeve shirt, and safety glasses) when applying.
- DO NOT ingest internally.
- Keep out of reach of children.
- Protect from freezing.
- Protect grout applied area from dirt, construction debris, and contamination for 3 days @ 70°F (21°C).
- Some soft polished marble or delicate glazed or glass tile might be scratched.
- Highly porous stones may require pre-sealing.
- In steam rooms or submerged applications, allow grout to cure for 14 days at 70°F (21°C).
- Resinous grout materials may affect the color of white or porous stones.
- Test stones for compatibility with water cleaning.
- Conduct a test area to determine compatibility with metal or steel tile.
- Wash the entire grout area with clean potable water after any acid wash.

## **MAINTENANCE**

- Clean with neutral pH soap and water
- For optimal performance, use HYDACLEAN Series cleaners
- Regular maintenance extends the durability and appearance of HYDAPOXY 001

## **PERFORMANCE LIMITATIONS**

- Not recommended for exterior applications.
- Not intended for industrial areas exposed to high concentrations of food acids, mineral acids, or high heat — for such applications, use Industrial Grout.
- Do not use in areas exposed to continuous high surface temperatures greater than 32°C or where temperatures are expected to drop below 10°C.
- For soft polished marble, delicate glazed tiles, or glass mosaics, conduct a small test area before full installation to check for surface scratching.
- Highly porous stones may require pre-sealing with a compatible sealer before applying HYDAPOXY 001.
- Resinous grouts like HYDAPOXY 001 may alter the color of white or light-colored stones — always test on a sample area first.
- Movement joints must be provided to accommodate expansion and prevent grout cracking.
- HYDAPOXY 001 is a high-performance epoxy grout but is not a substitute for waterproofing. Use a suitable waterproofing membrane wherever waterproofing is required.
- Light colors may slightly darken when exposed to prolonged UV light.
- Maximum stain and chemical resistance is achieved 14 days after installation. Protect from acids, harsh chemicals, and strong cleaners during this curing period.

- Protect grouted areas from foot traffic for 24 hours after installation, and allow 3 days for full traffic.
- Allow 14 days curing in submerged or steam room applications before exposure to water.

**-End of TDS**