



HYDAPOXY 003 STAIN FREE EPOXY GROUT

ABOUT HYDAPOXY 003

HYDAPOXY 003 is a stain-free, high-performance epoxy grout designed for interior and covered exterior applications on floors and walls. Its advanced formulation ensures exceptional durability, hygienic performance, and aesthetic stability in demanding environments. With superior chemical, temperature, and water resistance, it is ideal for residential, commercial, and institutional projects where performance and hygiene are critical.

HYDAPOXY 003 complies with **ANSI A118.3** and **ISO 13007-3 (RG) / EN 13888**, offering premium resistance to stains, chemicals, and microbial growth while providing long-lasting protection and vibrant grout lines.

This anti-bacterial, anti-fungal, food-grade certified grout is perfect for high-traffic areas and wet zones, ensuring robust performance even in chemically aggressive or humid conditions. Its non-cracking, non-powdering properties make it an excellent choice for both walls and floors, including vertical surfaces and submerged applications.

SURFACE APPLICATION MATERIALS

- Marble & Granite
- Agglomerates (Engineered Stones)
- Vitrified & Ceramic Tiles
- Precast Terrazzo Tiles
- Glass Mosaic Tiles
- Natural Stones
- Metal Tiles

APPLICATION AREAS

- Swimming Pools, Water Bodies & Saunas
- Interior & Covered Exterior Walls and Floors
- Schools & Recreational Areas
- Residential Wet Areas (Bathrooms, Washrooms)
- Institutional Spaces & Restrooms
- Commercial Kitchens, Cafeterias & Food Courts

PRODUCT HIGHLIGHTS

- ❖ **STAIN-FREE PERFORMANCE** – Maintains original color and finish with excellent stain resistance
- ❖ **CHEMICAL & TEMPERATURE RESISTANT** – Withstands harsh cleaners and temperature fluctuations
- ❖ **EASY TO CLEAN** – Smooth finish resists dirt and is easy to maintain
- ❖ **ANTI-BACTERIAL & ANTI-FUNGAL** – Ideal for food handling areas and hygiene-critical zones
- ❖ **WATER & SHOCK RESISTANT** – Suitable for wet areas and heavy usage
- ❖ **NON-CRACKING / NON-POWDERING** – Long-lasting and durable, even under stress
- ❖ **COLOUR-FASTNESS** – Resists UV fading and retains original tone

TECHNICAL DETAILS

ANSI DATA

PROPERTY	TEST METHOD	REQUIREMENT	HYDAPOXY 003 VALUES
Water cleanability	ANSI A118.3 – Cl. 5.1	> 80 Minutes	95 – 125 Minutes
Initial Setting Time	ANSI A118.3 – Cl. 5.2	> 120 Minutes	195 – 255 Minutes
Service Setting Time	ANSI A118.3 – Cl. 5.2	≤ 7 Days	46 – 70 Hours
Shrinkage after 7 Days	ANSI A118.3 – Cl. 5.3	< 0.25%	< 0.10%
Sag in Vertical Joints	ANSI A118.3 – Cl. 5.4	No change in shape of joint	Pass – No change in shape of joint
Bond Strength to Quarry Tile	ANSI A118.3 – Cl. 5.5	> 1000 psi (6.87 MPa)	> 1102 psi (7.88 MPa)
Compressive Strength after 7 Days	ANSI A118.3 – Cl. 5.6	> 3500 psi (24.06 MPa)	7502 – 8202 psi (51.58 – 56.38 MPa)
Tensile Strength after 7 Days	ANSI A118.3 – Cl. 5.7	> 1000 psi (6.87 MPa)	2302 – 2602 psi (15.82 – 17.89 MPa)
Thermal Shock Resistance	ANSI A118.3 – Cl. 5.8	> 500 psi (3.43 MPa)	1002 – 1102 psi (6.89 – 7.88 MPa)

EN / ISO DATA

PROPERTY	TEST METHOD	REQUIREMENT	HYDAPOXY 003 VALUES
Abrasion Resistance	ISO 13007 – 4: Clause 4.4; EN 12808 - 2	≤ 250 mm ³	Pass
Flexural Strength under standard conditions	ISO 13007 – 4: Clause 4.1.3; EN 12808 - 3	≥ 30 N / mm ²	37 - 39 N / mm ²
Compressive Strength under standard conditions	ISO 13007 – 4: Clause 4.1.4; EN 12808 – 4	≥ 45 N / mm ²	54 – 56 N / mm ²
Shrinkage	ISO 13007 – 4: Clause 4.3 : EN 12808 – 4	< 1.5mm / m	0.5 – 0.7 mm /m
Water Absorption after 240 Minutes	ISO 13007 – 4: Clause 4.2; EN 12808 – 5	≤0.1 g	0.02 – 0.060 g

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION GUIDELINES

1. **CLEAN & STABLE SURFACE** – Ensure that the substrate is clean, structurally stable, and free from debris, dust, grease, loose particles, or any foreign materials that could impair bonding.
2. **EVEN & LEVEL BASE** – Substrate surface should be even and plumb, with no more than a 6 mm variation over a 3-meter (10 ft) span, to prevent tile misalignment and ensure consistent joint filling.
3. **DRY & MOISTURE-CONTROLLED** – The substrate must be dry and free from rising moisture or dampness. Moisture levels should be within acceptable limits for epoxy application.
4. **PRE-WET IF NECESSARY** – For porous or high-absorption surfaces, pre-wet the substrate slightly and allow excess water to evaporate before application.
5. **CURE NEW CONCRETE** – Newly poured concrete must be cured for a minimum of 28 days to ensure dimensional stability and prevent shrinkage cracks.
6. **PRESERVE MOVEMENT JOINTS** – Provide expansion and movement joints as per standards. These should be filled with a flexible grout or sealant and never covered with HYDAPOXY 003 grout.

HOW TO MIX HYDAPOXY 003

- **COMPONENT COMPOSITION** – HYDAPOXY 003 is supplied in a factory-measured kit comprising:
 - Part A (Hardener)
 - Part B (Resin)
 - Part C (Filler Powder)
- **MIXING PROCESS** – Empty the entire contents of Part A and Part B into a clean mixing pail. Blend thoroughly using a margin trowel or slow-speed mechanical mixer until a uniform liquid is obtained.
- **ADDING FILLER** – Gradually add at least $\frac{3}{4}$ of Part C (filler powder) to the liquid mixture and blend until a smooth consistency is achieved. Add the remaining filler to obtain a stiff paste suitable for joint packing.
- **READY FOR APPLICATION** – Immediately empty the mix onto the work area and begin application. Use plastic sheeting underneath to protect surfaces. Avoid letting the mix sit in the bucket for extended periods.

CLEANING

- **INITIAL CLEANING:** After 30–45 minutes, scrub with water and provided scrubber. Wipe with a clean, thick white towel.
- **FINAL CLEANING:** Within 24 hours, clean the surface with mild detergent to remove haze.

STEP-BY-STEP TILE APPLICATION GUIDE

1. SURFACE PREPARATION

- Clean all tiles and grout joints thoroughly to remove dust, dirt, moist and debris.
- Avoid using acid cleaners before grouting; if used, rinse the area well with water.
- Lightly dampen the tile surface with a sponge before applying the grout.
- Ensure substrate temperature is between 16°C – 32°C (60°F – 90°F) before starting.

2. TILE PLACEMENT

- Place tiles firmly and evenly over the adhesive bed.
- Use tile spacers or proper alignment tools to ensure uniform joint width.
- Ensure proper bedding without lippage or uneven edges for better grout finish.

3. ACHIEVING FULL ADHESION

- Apply the mixed epoxy grout (HYDAPOXY 003) into the joints using a grout float or caulking gun.
- Press grout firmly into joints to fill them completely.
- Avoid leaving voids or air pockets.
- Remove excess grout from tile surface immediately after application.

4. SPACING & CLEANING

- Maintain consistent spacing between tiles for uniform grout lines.
- After 8–10 minutes, scrub the surface with water and the provided scrubber to remove grout haze.
- Wipe clean with a dry white towel.
- Do a final cleaning within 3 hours using mild soap and water.

5. SPECIAL CONSIDERATIONS

- Protect grouted areas from direct sunlight during application, especially in open areas.
- Cover swimming pool surfaces after grouting for 7 days before water filling.
- Movement joints must be planned and filled with flexible sealants.
- Not suitable for soft, polished marble or highly absorbent tiles without testing.
- Avoid strong acids or heavy cleaners for 10 days after application.

PRO TIPS & PRECAUTIONS

- ✓ Protect freshly grouted surfaces from sunlight, rain, and foot traffic for at least 24 hours. In open areas like terraces or pools, cover the surface and fill with water only after 7 days.
- ✓ Do not add cement or sand to the grout. Use only the components provided in the kit to ensure performance.
- ✓ Mix in the correct sequence: First mix all of Part A and Part B thoroughly, then gradually add the filler powder.
- ✓ Apply only on dry, cured substrates. Surface temperature should be between 16°C and 32°C.
- ✓ Don't use grout to level surfaces with deep irregularities over 15 mm.
- ✓ Test a small area first, especially on natural or absorbent tiles, to avoid staining.
- ✓ Clean off excess grout immediately using proper tools and techniques.

- ✓ Avoid acidic cleaners. If acids were used earlier, rinse thoroughly. After grouting, use only neutral or tile-safe cleaners.
- ✓ Always include movement joints as per standards and fill them with flexible sealants.
- ✓ Allow 10 days for full chemical resistance. Avoid harsh cleaners during this period.

PRODUCT SPECIFICATIONS & STORAGE GUIDELINES

AVAILABLE PACKAGING

- 1.0 kg
- 5.0 kg

Each kit contains:

- Part A (Hardener)
- Part B (Resin)
- Part C (Filler powder)

COLOUR OPTIONS

Available in a wide range of shades. Refer to the HYDAPOXY 003 colour chart to select the desired grout colour.

SHELF LIFE

24 months from the manufacturing date when stored properly in original sealed containers.

STORAGE LIFE

- Store between 10°C and 35°C
- Always keep sealed when not in use.
- Discard product if packaging is damaged or contents have hardened.
- Keep away from:
 1. Direct sunlight
 2. High humidity or moisture
 3. Extreme cold or heat (<5°C or >35°C)

GROUTING INSTRUCTIONS

1. **WAITING TIME:** Begin grouting after 24 hours of tile installation.
2. **RECOMMENDED PRODUCTS:**
 - Use filler powder for best results.
3. **APPLICATION TIP:** Ensure uniform joint gaps are maintained before applying grout for a clean and professional finish.

COVERAGE DETAILS

Coverage varies with tile size, joint width, joint depth, and surface texture.

FACTORS AFFECTING COVERAGE:

- Tile size and joint width
- Surface smoothness and porosity

- Application technique and tool used (e.g., caulking gun vs. grout float)
- Amount of filler powder added during mixing

SAFETY & APPLICATION GUIDELINES FOR HYDAPOXY 003

1. PERSONAL PROTECTION

- Wear protective gloves, clothing, and eye/face protection while handling.
- Keep out of reach of children at all times.
- For professional use only – not for consumer DIY applications.

2. EMERGENCY PROCEDURES

- Skin Contact: Wash immediately with plenty of clean water.
- Eye Contact: Rinse thoroughly with water for 15 minutes and seek medical attention.
- Inhalation/Ingestion: Seek immediate medical help if accidentally inhaled or ingested

3. MIXING INSTRUCTIONS

- Empty entire contents of Part A (Hardener) and Part B (Resin) into a clean container
- Mix thoroughly until liquids are completely blended
- Add $\frac{3}{4}$ of Part C (filler powder) and mix to a smooth consistency
- Add remaining filler powder and mix to a stiff, uniform blend
- Use a slow-speed mixer or margin trowel
- Pour contents immediately onto the working area after mixing

4. SURFACE PREPARATION

- Ensure tile joints are clean, free from debris, and dry
- Do not use acid cleaners prior to application – if used, rinse thoroughly with water
- Tile surface must be dust-free before grouting
- Substrate temperature should be between 16°C – 32°C (60°F – 90°F)
- Not suitable for highly absorbent tiles unless pre-tested for discoloration

5. INSTALLATION & PROTECTION

- Apply grout using standard epoxy techniques or a caulking gun
- Pack all joints completely with HYDAPOXY 003
- Remove excess grout before initial cleaning
- Initial Cleaning: Use clean water and provided scrubber 8–15 minutes after application
- Final Cleaning: Use neutral detergent within 3 hours to remove haze
- Protect application from direct sunlight, rain, and heavy traffic during curing
- For swimming pools and exposed areas, cover for 7 days and fill water only after complete curing

MAINTENANCE

- Clean with neutral pH soap and water
- For best performance, use HYDACLEAN Series cleaners
- Proper maintenance enhances the longevity and durability of the grout

PERFORMANCE LIMITATIONS

- Requires movement joints to prevent cracking
- Not a replacement for waterproof membranes – use suitable waterproofing systems where required
- Light colours may darken under prolonged UV exposure
- Maximum stain resistance is achieved 10 days after installation – protect from acids during this period

End of TDS