



HYDA CON
Innovative chemical solutions

Technical Data Sheet

HYDAPOXY 1714 Industrial Grade Epoxy Grout - 3 Part

ABOUT HYDAPOXY 1714

HYDAPOXY 1714 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 1714 complies with **ANSI A118.3** and **ISO 13007-4 (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.

RECOMMENDED SURFACES

- | | |
|---|--|
|  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 |  Institutional Spaces & Restrooms |
|  Residential Wet Areas (Bathrooms, Washrooms) |  Commercial Kitchens, Cafeterias & Food Courts |
|  Industrial Facilities – Dairies, Breweries, Meat Packing Units, and CIP Rooms |  Food & Beverage Plants – Soft Drink Units, Confectioneries, Mineral Water Plants |
|  Pharmaceutical Labs & Processing Areas | |

PRODUCT HIGHLIGHTS

- ❖ **STAIN-FREE PERFORMANCE** – Preserves original colour and finish with outstanding stain resistance
- ❖ **CHEMICAL & TEMPERATURE RESISTANT** – Resilient against aggressive cleaners and extreme temperature variations
- ❖ **EASY TO CLEAN** – Smooth, non-porous surface resists dirt and simplifies maintenance
- ❖ **ANTI-BACTERIAL & ANTI-FUNGAL** – Engineered for hygiene-sensitive environments such as food processing areas
- ❖ **WATER & SHOCK RESISTANT** – Durable in wet zones and capable of withstanding heavy mechanical impact
- ❖ **NON-CRACKING / NON-POWDERING** – Retains integrity under stress, ensuring long-term durability
- ❖ **COLOUR-FASTNESS** – Maintains colour brilliance and resists fading from UV exposure

TECHNICAL DETAILS

ANSI DATA

PROPERTY	TEST METHOD	REQUIREMENT	HYDAPOXY 1714 VALUES
Water Cleanability	ANSI A118.3 – Cl. 5.1	> 80 Minutes	90 – 115 Minutes
Initial Setting Time	ANSI A118.3 – Cl. 5.2	> 120 Minutes	185 – 245 Minutes
Service Setting Time	ANSI A118.3 – Cl. 5.2	≤ 7 Days	50 – 74 Hours
Shrinkage after 7 Days	ANSI A118.3 – Cl. 5.3	< 0.25%	< 0.20%
Sag in Vertical Joints	ANSI A118.3 – Cl. 5.4	No sag	Pass – No sag
Bond Strength to Quarry Tile	ANSI A118.3 – Cl. 5.5	> 1000 psi (6.87 MPa)	> 1155 psi (7.96 MPa)
Compressive Strength after 7 Days	ANSI A118.3 – Cl. 5.6	> 3500 psi (24.06 MPa)	7505 – 8205 psi (51.59 – 56.40 MPa)
Tensile Strength after 7 Days	ANSI A118.3 – Cl. 5.7	> 1000 psi (6.87 MPa)	2505 – 2805 psi (17.27 – 19.34 MPa)
Thermal Shock Resistance	ANSI A118.3 – Cl. 5.8	> 500 psi (3.43 MPa)	1005 – 1305 psi (6.93 – 8.99 MPa)

EN / ISO DATA

PROPERTY	TEST METHOD	REQUIREMENT	HYDAPOXY 1714 VALUES
Abrasion Resistance	ISO 13007 – 4: Cl. 4.4; EN 12808 – 2	$\leq 250 \text{ mm}^3$	Pass
Flexural Strength under standard conditions	ISO 13007 – 4: Cl. 4.1.3; EN 12808 – 3	$\geq 30 \text{ N/mm}^2$	43 – 47 N/mm ²
Compressive Strength under standard conditions	ISO 13007 – 4: Cl. 4.1.4; EN 12808 – 4	$\geq 45 \text{ N/mm}^2$	56 – 58 N/mm ²
Shrinkage	ISO 13007 – 4: Cl. 4.3; EN 12808 – 4	$< 1.5 \text{ mm/m}$	0.4 – 0.6 mm/m
Water Absorption after 240 Minutes	ISO 13007 – 4: Cl. 4.2; EN 12808 – 5	$\leq 0.1 \text{ g}$	0.016 – 0.031 g

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION GUIDELINES

1. CLEAN & PREPARE JOINTS

Ensure all joints are free from dust, debris, or standing water. Lightly sponge the tile surface to remove any remaining contaminants.

Note: Do **not** use acid cleaners. If acid was used previously, rinse thoroughly with clean water.

2. INSPECT TILE/STONE SURFACE

Conduct a sample patch test with **HYDAPOXY 1714** on the actual tile/stone to check for colour absorption or staining, especially on porous surfaces.

3. MOVEMENT JOINT PROVISION

Fill joints with flexible sealant. **HYDAPOXY 1714** is a solid epoxy grout and does not accommodate tile/stone movement.

4. PROTECT THE WORK AREA

When used in open or sun-exposed areas (e.g., pools), keep the area covered for 7 days after application. Delay filling pools until this curing time is complete.

HOW TO MIX HYDAPOXY 1714

1. COMPONENT COMPOSITION – HYDAPOXY 1714 is supplied in a factory-measured kit comprising:

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

2. MIXING PROCESS – Empty the entire contents of Part A and Part B into a clean mixing pail. Blend thoroughly using a margin trowel or a slow-speed mechanical mixer until a uniform mix is obtained.

3. **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.
4. **READY FOR APPLICATION** – Immediately pour the entire contents of the bucket onto the work area. Begin application using standard epoxy grouting techniques. Place plastic sheeting underneath to protect surfaces. Avoid letting the mix sit in the bucket for extended periods. Ensure that all grout joints are fully packed with HYDAPOXY 1714. Remove excess material before initial cleaning with a grout float. Do not leave excess grout on the face of the tiles.

CLEANING

- **REMOVE EXCESS GROUT** – Use the edge of the grout float to remove excess grout from the tile surface. Hold the float at a 90° angle and pull it diagonally across the joints to avoid pulling out the grout.
- **INITIAL CLEANING** – After 6-10 minutes of grouting, scrub the tile surface and joints with clean water and the provided scrubber to remove excess grout. Use a clean, thick white towel to drag across the tile and remove any remaining residue.
- **FINAL CLEANING** – Within 2-4 hours, perform a second cleaning using normal soap detergent to remove any haze from the tile.

PRO TIPS & PRECAUTIONS

- ✓ Protect freshly grouted surfaces from direct sunlight, rain, and foot traffic for at least 24 hours. In open areas like terraces or swimming pools, cover the grouted area and only fill with water after 7 days.
- ✓ Do not mix cement or sand with the grout. Use only the components provided in the **HYDAPOXY 1714** kit to ensure optimal performance.
- ✓ Always mix the grout in the correct order: First, thoroughly mix Parts A and B together, then gradually add Part C (filler powder) to achieve the desired consistency.
- ✓ Apply the grout only on dry, cured substrates. Ensure the surface temperature is between 16°C and 32°C.
- ✓ Avoid using grout to level surfaces with deep irregularities (greater than 15 mm).
- ✓ Test a small area before full application, especially when working with natural or highly absorbent tiles to prevent staining.
- ✓ Remove excess grout immediately using proper tools to avoid leaving grout residue on tile surfaces.
- ✓ Do not use acidic cleaners. If acids were used earlier, ensure thorough rinsing before starting the grouting process. After grouting, only use neutral or tile-safe cleaners.
- ✓ Allow at least 10 days for full chemical resistance to be achieved. Avoid using harsh cleaners during this curing period.

PRODUCT SPECIFICATIONS & STORAGE GUIDELINES

AVAILABLE PACKAGING

HYDAPOXY 1714 is a factory-proportioned kit consisting of:

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

UNIT NET WEIGHT:

- Unit: 5 kg

COLOUR OPTIONS

Standard Colours: Black

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 minimum after 24 hours of tile installation.
2. **APPLICATION TIP:** Ensure uniform joint gaps are maintained before applying grout for a clean and professional finish.

COVERAGE DETAILS

- **5 kg pack (unit)** – suitable for large-scale applications

NOTE: 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 1714

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

MAINTENANCE

- Clean with neutral pH soap and water
- For optimal performance, use **HYDACLEAN** Series cleaners
- Regular maintenance extends the durability and appearance of **HYDAPOXY 1714**

PERFORMANCE LIMITATIONS

- For soft, polished marble or delicate glazed tiles, Seek technical advice.
- Movement joints are required to accommodate tile/stone expansion and prevent grout cracking
- **HYDAPOXY 1714** is a solid epoxy grout and not a substitute for waterproofing – use an appropriate waterproofing membrane wherever required.
- Light colors may darken slightly with prolonged UV exposure
- Maximum stain resistance is achieved 7 days after installation – protect from acids and harsh cleaners during this curing period