

TILE R POXY 3K

THREE-COMPONENT WATERPROOF EPOXY TILE JOINT FILLER

DESCRIPTION

Tile R Poxy 3K is a three-component epoxy-based tile joint filler with waterproofing, stain-free, chemical-resistant, and wear-resistant properties. R Poxy 3K is resistant to abrasion, impact and shocks.

USES

- To fill tile gaps in glazed, ceramic, porcelain, vitrified tiles, natural stones, large format tiles, glass mosaic tiles, composites and engineered stones.

APPLICATION AREAS

PRODUCT INFORMATION

Chemical base	Epoxy resin, fine aggregates, additives and fillers
Packaging	Factory prepared kit which includes Part A (Base) and Part B (Hardner) and Part C (Filler powder) in a single unit.
Units	1 Kg & 5 Kg
Shelf life	24 months from the date of manufacturing
Storage conditions	Product must be stored in original, unopened and undamaged sealed packaging in dry condition temperature between +5 °C to 35 °C under shade, away from direct sunlight
Appearance	Part A – Viscous liquid Part B – Viscous liquid Part C – Free-flowing powder (available in multiple colours)
Standard compliance	ANSI A118.3 and ISO 13007/EN 13888

APPLICATION INFORMATION

Mixed density	1.7 – 1.9 Kg/L
Ambient air temperature	+5 °C – +45 °C
Substrate temperature	+5 °C – +45 °C
Pot life	~45 minutes (at +21 °C)
Joint width	2-15 mm

TILE R POXY 3K

Sag resistance	Non sag	
Applied product ready for use	Use	Waiting time
	Light foot traffic	24 hours
	Regular traffic	3 days

Values determined at the laboratory conditions: 23 °C ± 2 °C, R.H. 50 % ± 5 %. Higher temperatures will reduce the indicated waiting times, lower temperatures increase them.

TECHNICAL INFORMATION

Requirements as per ANSI A118.3, ISO 13007-3 (RG)/EN 13888

TEST PARAMETERS	TEST METHODS	REQUIREMENTS	RESULTS
Water cleanability	ANSI A118.3, clause 5.1	>80 minutes	90-120 minutes
Initial setting time	ANSI A118.3, clause 5.2	>120 minutes	200-260 minutes
Service setting time	ANSI A118.3, clause 5.2	≤7 days	48-72 days
Shrinkage after 7 days	ANSI A118.3, clause 5.3	<0.25%	<0.10%
Sag in vertical joints	ANSI A118.3, clause 5.4	No change in shape of joint	Pass
Bond strength to quarry tile	ANSI A118.3, clause 5.5	>6.87 MPa	>7.86 MPa
Compressive strength after 7 days	ANSI A118.3, clause 5.6	>24.06 MPa	51-56 MPa
Tensile strength after 7 days	ANSI A118.3, clause 5.7	>6.87 MPa	15-17 MPa
Thermal shock	ANSI A118.3, clause 5.8	>3.43 MPa	6-8 MPa

Requirements as per ISO 13007-3 (RG)/EN 13888

TEST PARAMETERS	TEST METHODS	REQUIREMENTS	RESULTS
Abrasion resistance	ISO 13007-4, clause 4.4, EN 12808-2	≤250 mm ³	Pass
Flexural strength	ISO 13007-4, clause 4.1.4, EN 12808-3	≥30 MPa	38-40 MPa
Compressive strength	ISO 13007-4, clause 4.1.4, EN 12808-4	≥45 MPa	55-57 MPa
Shrinkage	ISO 13007-4, clause 4.3, EN 12808-4	<1.5 mm/m	0.6-0.8 mm/m
Water absorption after 240 minutes	ISO 13007-4, clause 4.2, EN 12808-5	≤0.1 g	0.015-0.040 g
Chemical resistance	As per chemical resistance data		

*Values determined at the laboratory conditions, results may vary based on site conditions, contact Kansai Nerolac Paints technical team for assistance.

CHEMICAL RESISTANCE DATA

PROLONGED CONTACT

Aluminum Bromide, Aluminum Fluoride, Baking Soda, Barium Hydroxide, Beer, Boric Acid, n-Butanol, Calcium Chloride, Carbonates, Carbonic Acid, Castor Oil, Chlorides, Chlorinated Paraffin, Citric Acid, Coconut Oil, Cotton Seed Oil, Diesel, Dilute Detergents, Ethanol, Ethylene Glycol, Fats,

Ferric Chloride, Fish Oil, Gasoline, Groundnut Oil, Kerosene, Linseed Oil, lubricating Oils, Milk, Nitrates, Olive Oil, Palm Kernel Oil, Palm Oil, Paraffin Wax, Pine Oil, Potassium Hydroxide, Silicates, Sodium Carbonate, Sodium Chloride, Soybean Oil, Sugar, Sulphates, Sunflower Oil, Tannic Acid, Vegetable Oil, Water & White Sprit.

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MAX 24 HOURS

Acetic Acid (5%), Ammonium Bromide (5%), Household Ammonia, Hydrochloric Acid (dil), Lactic Acid (3%), Methanol, Phosphoric Acid (10%), Sodium Hydroxide.

SPLASH CONTACT

Acetic Acid (10%), Acetone, Acetyl Bromide, Benzene, Carbon disulphide, Carbon Tetrachloride, Chloroform, Chromic Acid, Ethyl Alcohol, Formic Acid, Lime Juice, Nitric Acid (10%), Phenol, Sulphuric Acid (20%), Methylene Chloride, Methylene Formamide.

APPLICATION PROCESS

SUBSTRATE PREPARATION

- Ensure 24-hour time interval for grouting after tile fixing.
- The joints must be dry, clean, free of dust & adhesive.
- Emptied at least 2/3 of the tile thickness depth.
- Before grouting, make sure that the installation the adhesive has set and released most of its moisture. The joints should not be wet during work.
- Put masking tape by side of grouting space or sealer if necessary.

MIXING

- Shake the bottle of Hardener and stir the Base prior to mixing.
- Pour Part A (Base) & Part B (Hardener) into a clean mixing pail.
- Mix thoroughly by hand or with a slow speed mixer (<300 rpm) until liquids are completely blended.
- Avoid entraining air by mixing at very high speed or by over-mixing.
- Use the paste within 45 - 60 minutes from mixing

APPLICATION

- Using a hard rubber squeeze/ grout floater, press the grout firmly into the joints.
- Hold the float at a 90° angle and pull it at a 45° angle diagonally across the joints and tile to avoid pulling out the material.
- Work in small areas to have better control on removing the excess grout from joints

and surface by moving the squeeze diagonally to the grout lines.

- Ensure that joint is filled completely, and grout is not just sitting on top.

CLEANING AND FINISHING

- Clean off the surplus grout from tile joints and tiles within 30-45 minutes/ before the product dries.
- Initially use a rough textured sponge dampened with water to remove the grout residue.
- Use the damp sponge in a circular motion and keep it relative to the tile surface to achieve the flush joint & taking care not to drag grout from the joints.
- Clean off any light residue of tile grout left on the tile surface using an Nerolac Perma Tile Multiclean / Alkaline detergent without disturbing the joint finish.
- Tools and containers should be cleaned using clean water when the grout is still fresh

LIMITATIONS

- Light colours may darken slightly by direct UV exposure.
- Maximum stain resistance achieved after 10 days of installation. Protect from exposure to acids and strong cleaners during this period.
- Not recommended for soft, polished marble or delicate glazed tiles.
- Tile adhesives, mastics, mortars, and grouts for ceramic tile, paver, brick and stone are not replacement for waterproof membranes. Use Nerolac perma waterproofing membranes before tiling/grouting.

PRECAUTIONS

- Please take right/ complete proportion of all components (base, hardener & filler). Any change in proportion would not give correct product performance.
- Do not apply on wet/damp tile joints. Always apply on completely dry tile joints.
- Do not over-mix the material. Over-mixing can reduce the pot life.
- Apply masking tapes along tile joints while working on unglazed floor tiles, porous tiles & natural stones, tiles with matt glaze or textured surfaces.

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- While cleaning, change water frequently. Change cleaning cloth/ sponge when they are stained with grout.
- Protect from direct rainfall/ foot traffic for at least 24 hours.
- Do not use acid to clean joints. Use Nerolac Perma Tile Multiclean for cleaning purpose.

- Do not allow grout to harden on the face of the tile. Clean promptly.

EHS INFORMATION

Avoid inhalation, eyes and skin contact. In case of contact wash with water and seek medical attention

For more details, please refer material safety data sheet.

COVERAGE

TILE DIMENSION (MM)			JOINT/GROUTING WIDTH								
LENGTH	WIDTH	THICKNESS	2	3	4	5	6	8	10	12	
25	25	6	1.68	2.52	3.36	4.2	5.04	6.72	8.4	10.1	
25	50	6	1.26	1.89	2.52	3.15	3.78	5.04	6.3	7.56	
50	50	6	0.84	1.26	1.68	2.1	2.52	3.36	4.2	5.04	
100	100	6	0.42	0.63	0.84	1.05	1.26	1.68	2.1	2.52	
100	100	10	0.7	1.05	1.4	1.75	2.1	2.8	3.5	4.2	
300	200	6	0.18	0.26	0.35	0.44	0.53	0.7	0.88	1.05	
300	300	6	0.14	0.21	0.28	0.35	0.42	0.56	0.7	0.84	
450	300	6	0.12	0.18	0.23	0.29	0.35	0.47	0.58	0.7	
600	300	6	0.11	0.16	0.21	0.26	0.32	0.42	0.53	0.63	
600	600	8	0.09	0.14	0.19	0.23	0.28	0.37	0.47	0.56	
800	800	8	0.07	0.11	0.14	0.18	0.21	0.28	0.35	0.42	
1000	1000	10	0.07	0.11	0.14	0.18	0.21	0.28	0.35	0.42	
1200	600	10	0.09	0.13	0.18	0.22	0.26	0.35	0.44	0.52	
1200	800	10	0.07	0.11	0.15	0.18	0.22	0.29	0.36	0.44	
1200	1200	12	0.07	0.11	0.14	0.18	0.21	0.28	0.35	0.42	
1600	800	12	0.08	0.12	0.16	0.2	0.24	0.32	0.39	0.47	
1800	1200	12	0.06	0.09	0.12	0.15	0.18	0.23	0.29	0.35	

*Consumption table dependent on the size of the tiles and width of the joints (Kg/m³)

FORMULA FOR THE COVERAGE CALCULATION

$$C = 1.7 \times H \times T \times [(L+W) / (L+W)]$$

T – Width of tile joint, mm

C – Tile grout coverage (Kg/m³)

L – Length of tile, mm

H – Thickness of tile, mm

W – Width of tile, mm

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