

MASOPOXY 2



Masopoxy 2

Two Component, High Performance Epoxy Grout

DESCRIPTION

Masopoxy 2 is a two component, epoxy based tile grout available in a range of colours and suitable for all types of tiles and stones on the floor and wall. It has high chemical & abrasion resistance, and being impervious, it also produces hygienic joints that needs minimal maintenance. It is easy to apply and clean off, combining the performance of epoxy grouts with the ease of application associated with cement based grouts.

STANDARDS

Exceeds EN 13888 requirements, Class RG -ReactiveGrout

USES

Masopoxy 2 is suitable for grouting all types of Tiles & Stones in Internal & External, walls & floors and in Dry and Wet environments. Few examples are:

- Food preparation areas. Dairies, Kitchens & Cafeterias
- Showers, Swimming Pools, Bathrooms & Water bodies
- Hygiene sterile areas, Hospitals
- Industrial/Chemical plants
- Domestic areas & work tops

Note

- (1) Do not use showers for at least 2 weeks following completion of grouting in accordance with BS 5385 Part 4: 2015. Clause 7.2.1
- (2) Do not fill pool at least 3 weeks following completion of grouting in accordance with BS 5385 Part 4: 2015, clause 7.3.2.10
- (3) Epoxy based grouts are prone to discolouration when used externally. However, all other mechanical properties will be unaffected.

FEATURES

- Non sag
- Hygienic and chemical resistant
- Stain and Fungi resistant
- Can be cleaned off from 15 minutes to 60 minutes after application
- Provides high strength and durable joints
- Suitable for submerged conditions
- Extremely easy to apply and to be cleaned from tiled surface
- Available in a range of colours

PHYSICAL PROPERTIES @ 27 ± 1°C

Property	Value
Mixed Density	approx. 1.50 g/cc
Joint Width	1- 15 mm

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Pot Life	45 minutes
Application Temperature	5°C to 30°C
Foot traffic	24 hours
Full cure	7 days
Temperature	0°C to 80°C
Resistance	
Shore D Hardness	> 70
(ASTM D 2240)	
VOC Content	approx. 5 g/l

PROPERTIES TESTED TO EN 13888: 2009

Property with Test Method	Min. Requirements	Typical Result
Abrasion Resistance (EN 12808-2)	$\leq 250 \text{ mm}^3$	$\sim 105 \text{ mm}^3$
Flexural Strength (EN 12808-3)	$\geq 30 \text{ N/mm}^2$	$\sim 33 \text{ N/mm}^2$
Compressive Strength (EN 12808-3)	$\geq 45 \text{ N/mm}^2$	$\sim 60.0 \text{ N/mm}^2$
Shrinkage (24 h.) (EN 12808-4)	$\leq 1.5 \text{ mm/m}$	$\sim 0.5 \text{ mm/m}$
Water Absorption (After 240 mins) (EN 12808-5)	$\leq 0.1 \text{ g}$	$\sim 0.005 \text{ g}$
Chemical Resistance 12h. (EN 12808-1)		
20% HCL	---	
30% H ₂ SO ₄	—	Passes

CHEMICAL RESISTANCE

MASOPOXY 2 is resistant to a wide range of liquids and chemicals, for specific information please refer to the following ARDEX ENDURA "Chemical Resistance" chart

CHEMICAL RESISTANCE

CHEMICAL	MASOPOXY 2
Acetic Acid (5%)	**
Acetic Acid (10%)	*
Acetone	*
Acetyl Bromide	*
Aluminium Bromide	***
Aluminium Fluoride	***
Ammonium Bromide (5%)	**

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Baking Soda	***	Lime Juice	*
Barium Hydroxide	***	Linseed Oil	***
Beer	***	Lubricating Oils	***
Benzene	*	Methanol	**
Boric Acid	***	Milk	***
n-Butanol	***	Nitrates	***
Butyl Acetate	*	Nitric Acid (10%)	*
Calcium Chloride	***	Olive Oil	***
Calcium Hydroxide	***	Oleic Acid	***
Carbon Disulphide	*	Palm Kernel Oil	***
Carbon Tetrachloride	*	Palm Oil	***
Carbonates	***	Paraffin Wax	***
Carbonic Acid	***	Phenol	*
Castor Oil	***	Phosphoric Acid (10%)	**
Chlorides	***	Pine Oil	***
Chlorinated Paraffin	***	Polypropylene Glycol	***
Chloroform	*	Potassium Hydroxide	***
Chromic Acid	*	Proprietary Sterilising Agents	***
Citric Acid	***	Silicates	***
Coconut Oil	***	Sodium Carbonate	***
Cotton Seed Oil	***	Sodium Chloride	***
Diesel Oil	***	Sodium Hydroxide	**
Dilute Detergents	***	Sodium Hypochlorite Soln. (15% available chlorine)	***
Ethanol	***	Soya Bean Oil	***
Ethyl Alcohol	*	Sugars	***
Ethylene Glycol	***	Sulphates	***
Fats	***	Sulphuric Acid (45%)	*
Ferric Chloride	***	Sunflower Seed Oil	***
Fish Oil	***	Tannic Acid	***
Fluorides (except HF)	***	Tetrahydronaphthalene	***
Formic Acid	*	1,1,1- Trichloroethane	***
Gasoline	***	Vegetable Oils	***
Ground Nut Oil	***	Water	***
Heptane	***	White Spirit	***
Household Ammonia	**		
Hydrobromic Acid	**	NOTE:	
Hydrochloric Acid (dil)	**	* Splash contact only	
Kerosene	***	** Contact for max. 24 hours before washing off	
Lactic Acid (3%)	**	*** Prolonged contact	

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COVERAGE ESTIMATES

Pack size

1 kg kit (PART A- 0.925 kg, PART B- 0.075 Kg)

5 kg kit (PART A- 4.625 kg, PART B- 0.375 Kg)

Coverage

Consumption depend on joint width, size of tiles

Theoretical coverage calculation:

$$\frac{(\text{Tile length} + \text{Tile breadth}) \times \text{Tile thickness} \times \text{Joint width} \times \text{Mixed Density}^*}{(\text{Tile length} + \text{Joint width}) \times (\text{Tile breadth} + \text{Joint width})} = \text{kg/m}^2$$

NOTE:

* Mixed Density = 1.50 g/cc

All the dimensions are in mm

Tile size in mm (L x B x T)	MASOPOXY 2 Coverage per kg (in sq. m)					
	Joint sizes					
	2 mm	3 mm	4 mm	5 mm	8 mm	10mm
200 X 300 X 6	6.77	4.55	3.45	2.78	1.79	1.45
300 X 300 X 8	6.25	4.17	3.23	2.56	1.64	1.33
300 X 600 X 10	6.67	4.55	3.45	2.70	1.72	1.41
450 X 450 X 10	7.69	5.00	3.85	3.03	1.96	1.56
600 X 600 X 10	10.00	6.67	5.00	4.00	2.56	2.08
800 X 800 X 10	14.29	9.09	6.67	5.26	3.45	2.70
1000 X 1000 X 10	16.67	11.11	8.33	6.67	4.17	3.45

APPLICATION INSTRUCTIONS

Surface Considerations

- Check potential staining risk: Apply grout to a few tiles/stones in a small trial area. If discolouration occurs or cleaning difficulty, apply a suitable sealer and repeat trial.
- Before commencing grouting, the adhesive bed must be set.
- The joints must be clean of all adhesive residue, dust or debris.
- Lightly sponge the tile surface to remove dust & dirt.
- Movement Joints: These should be provided in accordance with BS 5385: Part 1-5 and may be filled with the appropriate flexible sealant. Intermediate floor joints should be reinforced with brass or stainless steel. Use stainless steel where hygiene is essential.

Mixing

Pour the content of PART B (Hardener) into the container of PART A (Resin) and mix well until a smooth paste is obtained. The use of a low speed electric drill is advantageous to get a homogeneous uniform coloured mix.

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Ensure that the mixed grout is used within its pot life/working time. This is reduced during at higher temperatures and extended at lower temperatures.

Application

- Using a hard rubber grout float, compact the mix into the joints ensuring that they are completely filled.
- Work in small areas and remove as much excess from the tile/stone surface as work proceeds. Strike off excess materials diagonally to the grout lines.
- Clean off during working time. Using a soft sponge with little cold water and applying gentle pressure, work in circular movement to emulsify the surface residues and provide uniform grout joints.
- After 15 minutes after application, check for joints to be stiff.
- Use a scrubber (for rustic & matt finish tiles) or sponge/clean cloth (for smooth tiles) dampened with clean water to scrub the tile surface in a circular motion diagonally to the grout lines in both clock-wise and anti-clock-wise directions.
- After 12- 24 hours, clean the tiled surface with water and soap solution to remove any remaining light haze.

Note:

If working in food processing/preparation/storage areas, keep tiles/mosaics dry and DO NOT bring floor into service until grout is hard/cured. Avoid contact between food and tiling for at least 7 days after grouting.

CLEANING

Tools and containers may be cleaned using water when the grout is still fresh. The hardened grout can be removed from tools mechanically.

STORAGE AND SHELF LIFE

MASOPOXY 2 has a shelf life of 24 months when stored in normal dry conditions.

PRECAUTIONS

Keep out of reach of children. Wear suitable protective clothing, gloves and eyes/face protection. After contact with skin, wash immediately with plenty of clean water. In case of contact with eyes rinse immediately with plenty of clean water and seek medical advice.

For more details please refer the relevant Material Safety Data Sheet

CONDITIONS OF SALE

Sold subject to the Company's conditions of sale which are available on request.

NOTE

The information supplied in this datasheet is based upon extensive experience and is given in good faith in order to help you. Our Company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products; however, as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof

ARDEX ENDURA (INDIA) PRIVATE LIMITED

An ISO 9001 : 2015 & ISO 14001 : 2015 certified company

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