

KEMAPOX ARTCOLOR

Revolutionary easy to clean 2 parts acid resistant epoxy joint grouting and adhesive compound with many exclusive decoration effects



- ▶ Extremely easy application and cleaning
- ▶ Stable and uniform colouring for all types of tiles
- ▶ High mechanical strength
- ▶ Stain-resistant and water repellent
- ▶ Total absence of cracking during hardening
- ▶ Excellent chemical resistance
- ▶ The additives ARTCOLOR SPARK, SILVER and GOLD, give the grouting a unique and exclusive effects
- ▶ Total absence of cracking or crazing during hardening
- ▶ UV stability

PRODUCT DESCRIPTION	2-component acid-resistant epoxy adhesive and joint grouting compound. Part A consists of an epoxy resin mixture, siliceous aggregates and additives. Part B consists of a mixture of organic catalysts.
FIELD OF USE	For adhesion and joint grouting of porcelain tiles, clinker, metallic mosaic, vitreous mosaic, wood, natural stones, reconstituted stones, cobblestones, and glass blocks, onto floor and wall in interiors and exteriors onto floor and wall with grout joints between 1-15 mm wide in interiors and exteriors. Colours: A15 – medium grey, A20 – dark grey, A30 – anthracite grey, A60 – white, A85 - almond.
	Suitable for applications where the surfaces are exposed to aggressive chemical substances e.g. food factories and chemical industry. It is also recommended for grouting bathrooms, shower cubicles, swimming pools and tanks, containing thermal or brackish water, terraces and balconies, underfloor heating and kitchen counter tops.
PRODUCT PROPERTIES	<ul style="list-style-type: none"> • Extremely easy application and cleaning • Stable and uniform colouring for all types of tiles • High mechanical strength • Stain-resistant and water repellent • Total absence of cracking during hardening • Excellent chemical resistance • The additives ARTCOLOR SPARK, SILVER and GOLD, give the grouting a unique and exclusive effects • Total absence of cracking or crazing during hardening • UV stability

PRODUCT DATA		
BASIC INFORMATION	Appearance	In 5 available colours two-part epoxy adhesive and grouting compound
	Packing	2,5 kg in a plastic bucket (set of componet A + component B)
	Storage and expiration date	Minimum 24 months from date of production if stored properly in undamaged original sealed packaging in dry and cool conditions. Date of production is printed on packaging.
TECHNICAL DATA	Type of product	Two part epoxy adhesive and grouting compound
	Mix consistency	Creamy
	Specific gravity of mix	1,55 kg/dm ³
	Permitted application temperatures	From +12°C a +30°C
	Recommended application temper.	From +18°C +23°C
	Shear adhesion strength	Initial ≥ 2 N/mm ² EN 12003
		After immersion in water ≥ 2 N/mm ²
		After thermal shock ≥ 2 N/mm ²
	Mechanical flexural strength after 28 days	≥ 30 N/mm ² EN 12808-3
	Mechanical compressive strength after 28 days	≥ 45 N/mm ² EN 12808-3
	Shrinkage	$\leq 1,5$ mm/m EN 12808-4
	Water absorption after 4 hours	$\leq 0,1$ g EN 12808-5
	Temperature of use	From -20°C to +100°C

CHEMICAL RESISTANCE TABLE The table is a summary of the chemical resistance proof made according to regulation EN 12808
CHEMICAL RESISTANCE ON INDUSTRIAL FLOORS

Name	Conc. %	Continuous use	24 hours	7 days	14 days	28 days	Intermittent use
Acids							
Acetic Acid	2,5		ER	ER	ER	ER	ER
	5		ER	ER	ER	GR	ER
Hydrochloric Acid	37		ER	ER	ER	GR	ER
Citric Acid	10		ER	ER	ER	ER	ER
Acido lattico	2,5		ER	ER	ER	ER	ER

	5		ER	ER	ER	ER	ER
	10		ER	ER	ER	ER	ER
Nitric Acid	25		ER	ER	ER	ER	ER
	50		ER	SO	SO	SO	ER
Oleic Acid	-		ER	SO	SO	SO	ER
Vitriol	1,5		ER	ER	ER	ER	ER
	50		ER	ER	ER	ER	ER
	96		PR	PR	PR	PR	PR
Tannic Acid	10		ER	ER	ER	ER	ER
Tartaric Acid	10		ER	ER	ER	ER	ER
Oxalic Acid	10		ER	ER	ER	ER	ER
Alkalis			ER	ER	ER	ER	ER
Ammonia in solution	25		ER	ER	ER	ER	ER
Caustic Soda	50		ER	ER	ER	ER	ER
Sodium Hypochlorite Conc. Cl active	>10		ER	ER	ER	GR	ER
Caustic Potash	50		ER	ER	ER	ER	ER
Sodium Bisulphite	10		ER	ER	ER	ER	ER
Concentrated solutions 20°C							
Iposulphite Sodium			ER	ER	ER	ER	ER
Calcium Chloride			ER	ER	ER	ER	ER
Sodium Chloride			ER	ER	ER	ER	ER
Ferric Chloride			ER	ER	ER	ER	ER
Sugar			ER	ER	ER	ER	ER
Oils and fuels							
Petrol, Fuels			ER	ER	ER	GR	ER
Turpentine			ER	ER	ER	ER	ER
Gas Oil			ER	ER	ER	ER	ER
Olive Oil			ER	ER	ER	ER	ER
Lube Oil			ER	ER	ER	ER	ER
Solvents							
Acetone			ER	PR	PR	PR	ER
Ethylene Glycol			ER	ER	ER	ER	ER
Glycerine			ER	ER	ER	ER	ER
Ethyl Alcohol			ER	ER	GR	PR	ER



Solvent Petrol			ER	ER	ER	ER	ER
Peroxide Water	10		ER	ER	ER	ER	ER
	25		ER	ER	ER	ER	ER

KEY:

ER = Excellent resistance

GR = Good resistance

PR = Poor resistance

INSTRUCTIONS FOR USE

CONSUMPTION approx. 1,6 kg/m² for adhesion with using trowel notch size of 4 mm

approx. 0,1-1,5 kg/m² for grouting, depends on the width and depth of the joint

BASE Grouting can be started when adhesive or mortar for setting tiles is complete hardened. Consider times in technical data sheets of adhesives. The joints must be clean, free of powder and empty to at least 2/3 of the tile thickness. Any adhesive or mortar that has squeezed up inside the joints must be removed, when still is in fresh condition.

BASE PREPARATION Cut off a corner from the bag, containing the catalyst (part B), situated in the small bucket, and pour it onto part A (paste). It is recommended to empty completely the bag with the catalyst, rolling it up towards the cut side. Mixed with electric mixer until you get a homogeneous thick mass without lumps. Scrape the sides and the bottom of the container, using a steel spatula, to make sure that all the paste is catalyzed. Hand mixing is not recommended.

INSTALLATION Grouting compound is rubbed into grouts with rubber trowel. Remove excess product. The product's pot life and hardening time is strongly dependent on the ambient temperature. The ideal temperature for application is between +18 and +23°C. In these conditions the product is an easily workable smooth mortar, with a pot life of about 1 hour. It is ready for foot traffic after 24 hours. At a temperature of +15°C it takes three days before the surface is ready for foot traffic. The floor is ready to use and resistant to chemicals after 5 days at a temperature of +23°C and after 10 days at a temperature of +15°C. At temperatures between +8°C and +12°C, the product is very dense and difficult to apply. The hardening time is also lengthened considerably. Do not add water or solvents to improve workability. In hot weather it is advisable to apply the product to the floor as quickly as possible so as not to shorten further the pot life due to the reaction heat in the container.



CLEANING AND FINISHING The grout work must be cleaned and finished while the product is still wet and in any case in the shortest possible time. Take care not to remove product from the joints or leave stains on the tile surface.

CLEANING OF THE SURFACE

First sprinkle clean water over the grouted surface. If necessary, perform initial cleaning using a float equipped with a moistened white felt. Make circular movements in both clockwise and anticlockwise directions in order to seal perfectly the sides of the tiles and to remove excess grout from the surface of the tiles. Now perform a second pass with a sponge ARTCOLOR SPONGE in order to obtain a smooth, closed surface and to remove completely the product from the surface of the tiles, without removing it from the joints, as well as to dry off the excess of water. When the felt and sponge are impregnated with resin and can no longer be used, they must be replaced. Stains or residues of transparent product can be removed after 24 hours or at any rate after grout hardening, using the specific cleaner ARTCOLOR CLEANER.

TOOL The trowel notch with teeth depth of 4 to 6 mm.

TIME BEFORE GROUTING

- Floor tile installation with normal-setting adhesive: 24 hours
- Floor tile installation with fast-setting adhesive: 4 hours
- Floor tile installation with mortar: 7-10 days
- Wall tile installation with normal-setting adhesive: 6-8 hours
- Wall tile installation with fast-setting adhesive: 4 hours
- Wall tile installation with mortar: 2-3 days

OPEN TIME ca. 1 hours at T=+23°C

COAGULATION

- Product appropriate for (+23°C):
- Walk on time after 24 hours.
- Ready for use after 5 days.

LIMITATIONS

- WARNINGS**
- If possible, apply the product at temperatures between +18°C and +23°C. Do not use at low temperatures or in environment with high humidity, in order to avoid the superficial carbonation that may modify the uniformity of the colour.
 - Remove excess product from the tile surface rapidly because once hardened it will have to be removed mechanically, seriously jeopardising the finished result.
 - Mix the two components (A+B) correctly.
 - While cleaning change frequently the water. Change the felt and the sponge when they are impregnated with resin.
 - Don't walk on the just grouted surface so as not to stain the floor with epoxy resin.
 - Do not cover the grouted surface with length of cloth or other materials to avoid the condensation that may cause the superficial carbonation of the product with the resulting non-homogeneity of the colour.
 - In case of grouting natural stones, it is necessary to execute a preliminary test, in order to verify the absorption of resin by the stone slabs. In case of the resin absorption, the dark stains may and they can't be removed. This problem is usual for marbles of light colours.
 - The product must not be used for grouting tanks containing aggressive substances with which only occasional contact is permitted (see chemical resistance table).
 - Do not mix the product with water or solvents.
 - Do not use for applications not stated on this technical sheet.

Recommendation: Remains of the unhardened/unset material have to be removed in accordance with the legislation.

Data source: All technical data in this technical sheet was obtained by laboratory research. Actual data may differ due to different working conditions.

Local restrictions: Due to specific local regulations the installed product can differ from country to country. For exact instructions for use a country specific technical sheet should be obtained.

SAFETY DATA

Safety information according to 1907/2006/EC (REACH), Article 31

Part A

Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight=700)

Oxirane, mono(C12-14-alkyloxy)methyl derivs

Xi-Irritant

R36/38 - Irritating to eyes and skin.

R 43 - May cause sensitisation by skin contact.

R 52/52 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S 2 - Keep out of the reach of children.

S 24/25 - Avoid contact with skin and eyes.

S 26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 29/56 - Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

S 37/39 - Wear suitable gloves and eye/face protection.

S 46 - If swallowed, seek medical advice immediately and show this container or label. Contains epoxy constituents.

See information supplied by the manufacturer.

Part B

Hazard-determining components of labelling:

3,6 - diazaoctanethyenediamin

3,6,9 - triazaundecamethylenediamine

Xi-Irritant

R36/38 - Irritating to eyes and skin.

R 43 - May cause sensitisation by skin contact.

R 52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S 2 - Keep out of the reach of children.

S 23 - Do not breathe fumes/aerosol.

S 24/25 - Avoid contact with skin and eyes.

S 29/56 - Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

S 37 - Wear suitable gloves.

S 46 - If swallowed, seek medical advice immediately and show this container or tabel.

More data on storage, handling and use of mixture can be found in the safety sheet which contains safety, toxicological and ecological data. Warnings on the original packaging should also be considered.

LEGAL BASE

Information and recommendations related to use of KEMA products are presented in good faith and believed to be correct. The later is based on our knowledge and experience with the products. Information is supplied upon the condition that products are stored and used according to the recommendations and the persons receiving the same will make their own determination as to its suitability for their purposes prior to use. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to Information or the product to which information refers. In no event will KEMA be responsible for damages of any nature whatsoever resulting from the use of or reliance upon Information or the product to which Information refers. Nothing contained herein is to be construed as a recommendation to the use any product, process, equipment or formulation in conflict with any patent, and KEMA makes no representation or warranty, expressed or implied that the use thereof will not infringe any patent. All orders fall under current sales and supply conditions. The user should always check the latest technical sheet available upon demand.