colorepoxy

**Decorative epoxy mortar,
bi-component, acidproof, for grouting
(available in 26 colours), ideal for mosaic.
Can also be used as an adhesive.**

CONFORME ALLA NORMA EUROPEA
EN 13888
RG
mosaico+
MALTA REATTIVA PER FUGHE

CONFORME ALLA NORMA EUROPEA
EN 12004
R2
mosaico+
ADESIVO REATTIVO PER CERAMICA

GEV-EMICODE®
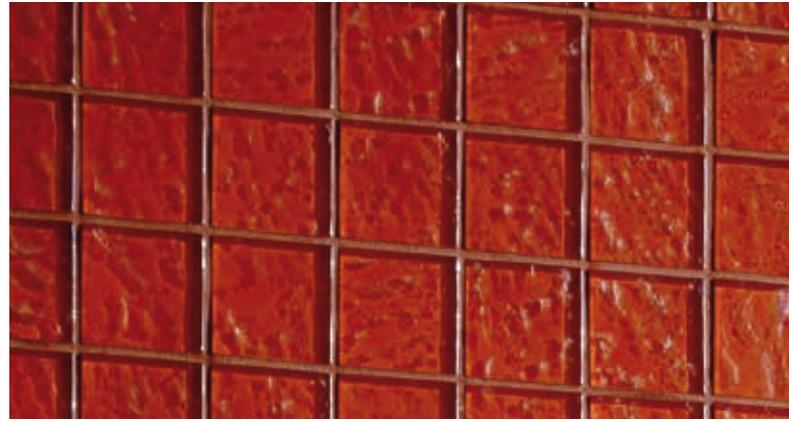**EC 1** PLUS
very low emission

CE
EN 12004

Use the provided trowel for applying Colorepoxy.

Use the provided trowel for applying Colorepoxy.

Remove the excess material with the provided trowel.

CLASSIFICATION PER EN 13888
Colorepoxy is a reaction mortar (R) for grouting (G), class RG.

CLASSIFICATION PER EN 12004
Colorepoxy is a reaction adhesive (R) with improved characteristics (2), class R2.

APPLICATIONS
Decorative grouting, indoors and outdoors, for floors and walls, especially mosaic. Also suited for the acidproof gluing of mosaic tiles on floors and on non-vertical flat surfaces. Suited for use on all normal building surfaces.

Example applications
- Laying and grouting decorative wall tiles in high value areas (e.g. showrooms, commercial, etc.).
- Suited for use on surfaces where a semi-transparent finish is desired, also for allowing light to pass through (e.g. glass surfaces).
- Laying and grouting bathroom and shower walls and floors, suited for use on glass fibre and PVC surfaces.
- Laying and grouting sauna, steam bath, etc. floors and walls.
- Laying and grouting swimming pools; especially recommended for pools containing thermal spring or saline water (with the exception of Colorepoxy Lux).
- Restoration of existing grouting joints following removal of friable residue to a depth of no less than 3 mm.

TECHNICAL CHARACTERISTICS
Colorepoxy is a two-component, decorative, epoxy resin-based grout with very low emission of volatile organic compounds, with silica sand and special components, highly resistant to acid aggression and easy to clean.

In the Lux version, Colorepoxy is mixed (at a rate of up to 10% by weight) with metallic coloured glitter, to obtain particular effects with the same technical characteristics.

The glitter is available in the colours diamond, zircon, topaz, emerald, aquamarine, sapphire, amethyst and ruby.

When properly applied, it yields grouting with the following characteristics:
- translucid, improves the chromatic effect of walls with special decorative characteristics;
- semi-transparent final appearance, very similar to that of vitreous mosaic; makes the mosaic more luminous, brilliant and emphatic;
- excellent mechanical and chemical resistance for outstanding durability;
- a smooth, dense finish, non-absorbent and easy to clean; ensures hygiene, prevents mould formation;
- excellent workability, much better than that of conventional mortars due to its creamy texture; this means reduced application times and an easier to clean surface, less wastage and a better finish;
- does not shrink, no cracks or fissures;
- uniform colours, resistant to UV and atmospheric aggression;
- excellent adhesion.

IMPORTANT INFORMATION
- For expansion joints which are elastic or subject to movement we recommend using an elastic sealant from the MAPEI product line (e.g. Mapesil AC, Mapesil LM, Mapeflex PU40, Mapeflex PU45 or Mapeflex PU50 SL).
- Colorepoxy does not ensure perfect adhesion if used to grout mosaic the edges of which are wet or soiled with cement, dust, oil, grease, etc.
- Run tests before grouting porous materials with Colorepoxy in a contrasting colour (e.g. black on white).
- Do not add water or solvent to Colorepoxy to improve its workability.
- Use the product at a temperature of +12°C to +30°C.
- The packs are pre-batched so that simply mixing the full amount of the two components together gives the best results. Do not attempt to mix the product by eye; an incorrect catalytic ratio compromises curing.
- If you need to remove cured Colorepoxy from the grouting joints, use an industrial hot air blower. If any cured product adheres to the surface of the tiles, use Pulicol to clean it off.

APPLICATION AS AN ACIDPROOF GROUT
Preparing the grouting joints
The joints must be dry, clean, free of dust and open to at least 2/3 of the thickness of the tiles themselves; any adhesive or mortar which has welled up during laying must be removed while still fresh.
Before grouting, make sure that the mortar bed or adhesive are adhering well and have already released most of their humidity.
Colorepoxy is not affected by the humidity of the bed, but the joints must be dry for proper application.

Preparing the mix
Pour the hardener (component B) into the container of component A and mix them thoroughly and homogeneously. For best results, use a slow speed electric mixer, which also prevents the mix overheating, thus reducing the working time. Add the glitter to the resulting mix if so desired, to the amount required for the effect you wish to achieve, up to a maximum of 10% by weight. Use the mix within 45 minutes.

Application
Apply Colorepoxy with the provided trowel, making sure to fill the joints to their full depth. Using the same trowel diagonally to the filled joints, remove any excess material.

Finish
Clean off the floor or wall while the Colorepoxy is still fresh.
Wet the grouted surface and use a Scotch-Brite® pad to emulsify the excess grouting, taking care not to empty out the joints themselves. When cleaning walls in this way, make sure the pad is full of water.
The liquid residue can be removed with a hard cellulose sponge, which must be replaced when too full of resin; the same method can be used to even off the grouting.
It is essential that, after finishing, there be no traces of Colorepoxy on the tiles, since it is much harder to remove once cured: rinse the sponge frequently with fresh water while cleaning the tiles off.

If the floor is very large, finishing may be done with a rotary mono-disc machine fitted with special Scotch-Brite® abrasive felt disks soaked with water. The liquid residue can be gathered up with a rubber wiper and then removed from the floor.
If too much time has passed since grouting and the Colorepoxy has

Apply the adhesive to the surface with a toothed trowel.

Lay the mosaic on the adhesive.

Leave for 24 hours, then apply Colorepoxy grouting.

already started to harden, it can be emulsified with a Scotch-Brite® pad, using water and 10% ethyl alcohol. This technique can also be used to remove any haloes remaining after cleaning with Scotch-Brite® and water.

APPLICATION AS AN ADHESIVE
After mixing the two components as described above, apply the adhesive to the surface with a toothed trowel. Then apply the material to the adhesive with sufficient pressure to ensure effective wetting. Once it has cured, the product provides very strong adhesion and is resistant to chemical aggression.
The particular texture of the product means that the covering can be grouted immediately after laying, also on walls, which considerably reduces the overall installation time.

WALKOVER TIME
At 20°C, floors can be walked on after 24 hours.

USE
4 days. After 4 days, the surface will also be resistant to chemical aggression.

Cleaning
Wash the tools and containers with abundant fresh water; if the Colorepoxy has hardened, it can only be cleaned off mechanically.

CONSUMPTION
The consumption of Colorepoxy depends on the size of the grouting joints and the tiles themselves. For 4 mm thick mosaic chips, in the 2x2 cm size, consumption is roughly 1.4 kg/m^2.
Used as an adhesive, Colorepoxy has a consumption of 2-4 kg/m^2, which will vary with the size of the mosaic chips.
To assess the consumption with tile sizes and grouting joints of different widths, use the following formula.

CONSUMPTION FORMULA:

$$\frac{(A + B)}{(A \times B)} \times C \times D \times 1{,}5 = \frac{kg}{m^2}$$

A = length of chip (mm)   C = thickness of chip (mm)
B = width of chip   (mm)   D = width of joint   (mm)

The consumption of glitter depends on the desired effect; do not use more than 10% by weight of Colorepoxy.

PACKS
Colorepoxy is supplied with the components in the correct ratios for mixing, in tubs which contain not only component A but also the container of component B.

The product is available in packs of a total of 3 kg.

The glitter is supplied in 100 g bags.

COLOURS
Colorepoxy is available in 26 colours (25 colours plus neutral).

The glitter is available in the colours diamond, zircon, topaz, emerald, aquamarine, sapphire, amethyst and ruby.

STORAGE
Stored in a dry place in its original packaging, Colorepoxy has a shelf life of 24 months.

Store component A at at least +10°C to prevent it crystallising; however, should this occur, the process can be reversed by warming it up.

SAFETY INSTRUCTIONS FOR PREPARATION AND USE
Colorepoxy component A may irritate the skin and eyes, both components A and B may cause sensitisation if they come into contact with the skin to those predisposed. Moreover, Colorepoxy component B is corrosive and may cause burns. The product contains low molecular weight epoxy resins that may cause sensitisation if cross-contamination occurs with other epoxy compounds. When applying the product, we recommend the use of protective gloves and goggles and to take the usual precautions for handling chemical products. In case of contact with eyes or skin wash immediately with plenty of water and seek medical attention.
Colorepoxy components A and B are also hazardous for aquatic life. Do not dispose of these products in the environment.
For further and complete information about the safe use of our product please refer to our latest version of the Material Safety Data sheet.

PRODUCT ONLY FOR PROFESSIONAL USE

WARNING
The above instructions and information, while they reflect our experience, are nonetheless guidelines and must be confirmed by exhaustive practical testing; before using the product, make sure that it is suited to the intended application. The user is responsible for all consequences of its use.

SPECIFICATIONS
Used as grouting
Decorative grouting, composed of coloured epoxy mortar, acidproof, class RG (EN 13888), bi-component (Colorepoxy type), mixes up to 10% with metallic coloured glitter (such as Il Glitter type), particularly suited to ornamental walls and floors and vitreous mosaic, with excellent mechanical and chemical resistance for long service life. The final surface is smooth and dense, non-absorbent and easy to clean, does not shrink is thus free of cracks and fissures. The grouting is extremely hard and resistant to heavy traffic. The colours are uniform and resistant to UV and atmospheric aggression.

Used as an adhesive
Rapid-setting acidproof gluing of mosaic tiles on floors and non-vertical flat surfaces, with class R2 (EN12004) bi-component acidproof coloured epoxy mortar (Colorepoxy type). Suited for use on all normal building surfaces. Once it has cured, the product provides very strong adhesion and is resistant to chemical aggression.

TECHNICAL DATA (typical values)
Complies with the following standards:

- European: EN 12004, class R2
- ISO 13007-1, class R2
- European: EN 13888, class RG
- ISO 13007-3, class RG

PRODUCT IDENTIFICATION DATA

	component A	component B
Consistency	creamy paste	gel
Colour	available in 25 colours plus neutral	
Density (g/cm³)	1.64	1.06
Solid residue (%)	100	100
Brookfield viscosity (mPa•s)	700,000	400,000
EMICODE:	EC1 R Plus - a bassissima emissione	

APPLICATION DATA (at +23°C and 50% RH)

Mixing ratio	component A : component B = 9 : 1
Consistency of mixture	creamy paste
Density of mixture (kg/m³)	1.550
Duration of mixture	45 min.
Application temperature	da +12°C a +30°C
Open time (as adhesive)	30 min.
Registration time (as adhesive)	60 min.
Walkover time	24 h
Use	4 days

FINAL CHARACTERISTICS

Adhesion (resistance to shear) per EN12003 (N/mm²)	
- initial	25
- following immersion in water	23
- following thermal shock	25
Resistance to bending (EN12808-3) (N/mm²)	45
Resistance to compression (EN12808-3) (N/mm²)	75
Resistance to abrasion (EN12808-2)	147 (loss in mm³)
Absorption, water (EN12808-5) (g)	0,05
Resistance to humidity	excellent
Resistance to ageing	excellent
Resistance to solvents and oils	very good (see table)
Resistance to acids and alkalis	excellent (see table)
Working temperature	da -20°C a +100°C

CONSUMPTION

COLORE	Chip / Size	Chip / Size mm / inches	Chip thickness mm / inches	Grout coverage kg/mq / lbs/sqft
	Vetrina	10x10 / 3/8"x3/8"	4 / 1/8"	1,5 / 3,31
	Concerto	15x15 / 5/8"x5/8"	4 / 1/8"	1,5 / 3,09
	Perle	15x15 / 5/8"x5/8"	4 / 1/8"	1,5 / 0,21
	Doro	15x15 / 5/8"x5/8"	4 / 1/8"	1,5 / 0,21
	Tanticolori	20x20 / ¾" x ¾"	4 / 1/8"	1,3 / 2,87
	Doro	20x20 / ¾" x ¾"	4 / 1/8"	1,3 / 2,87
	Aurore	20x20 / ¾" x ¾"	4 / 1/8"	1,3 / 2,87
		20x30 / 3/4"x1 3/16"	4 / 1/8"	1,3 / 0,25
	Divetro	23x23 / 7/8"x7/8"	8 / ¼"	2,5 / 5,51
	Onde	23x23 / 7/8"x7/8"	8 / ¼"	2,5 / 0,43
		23x48 / 7/8"x 1 7/8"	8 / ¼"	2,3 / 5,07
		48x48 / 1 7/8"x 1 7/8"	8 / ¼"	2,0 / 4,41
	Èmetallo	23x23 / 7/8"x7/8"	8 / ¼"	2,5 / 0,43
		23x48 / 7/8"x 1 7/8"	8 / ¼"	2,3 / 0,32
		25x28,9 / 1"x 1 1/8"	8 / ¼"	2,5 / 0,41
		24x13,9 / 1 x ½"	8 / ¼"	3,0 / 6,61
	Area25	50x50 / 2"x2"	6 / ¼"	1,8 / 3,97

	Chip / Size	Chip / Size mm / inches	Chip thickness mm / inches	Grout coverage kg/mq / lbs/sqft
CROMIE		10x10 / 3/8"x3/8"	4 / 1/8"	1,5 / 3,31
		15x15 / 5/8"x5/8"	4 / 1/8"	1,5 / 3,31
		20x20 / ¾" x ¾"	4 / 1/8"	1,3 / 2,87
		23x23 / 7/8"x7/8"	8 / ¼"	2,5 / 5,51
SFUMATURE		10x10 / 3/8"x3/8"	4 / 1/8"	1,5 / 0,28
		15x15 / 5/8"x5/8"	4 / 1/8"	1,5 / 0,21
		20x20 / ¾" x ¾"	4 / 1/8"	1,3 / 0,25
		23x23 / 7/8"x7/8"	8 / ¼"	2,5 / 0,43
		23x48 / 7/8"x 1 7/8"	8 / ¼"	1,3 / 0,32
		48x48 / 1 7/8"x 1 7/8"	8 / ¼"	2,0 / 4,41
DECOR		10x10 / 3/8"x3/8"	4 / 1/8"	1,5 / 3,31
		20x20 / ¾" x ¾"	4 / 1/8"	1,3 / 2,87
		23x23 / 7/8"x7/8"	8 / ¼"	2,5 / 5,51
		50x50 / 2"x2"	6 / ¼"	1,8 / 3,97

Available colours

Colorepoxy
Epoxy mortar
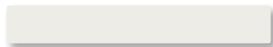
CX.S900 Neutro

CX.S026 Ghiaccio

CX.S002 Argento

CX.S031 Platino

CX.S003 Grigio

CX.S027 Perla

CX.S028 Cenere

CX.S029 Antracite

CX.S004 Nero

CX.S015 Sabbia

CX.S032 Beige

CX.S033 Avorio

CX.S020 Veneziano

CX.S024 Mattone

CX.S014 Terracotta

CX.S013 Fondente

CX.S030 Testa di Moro

CX.S023 Oliva

CX.S005 Grigioverde

CX.S006 Giada

CX.S008 Menta

CX.S009 Turchese

CX.S034 Carta da Zucchero

CX.S011 Avio

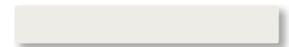CX.S012 Cobalto

CX.S017 Lilla

CX.S018 Viola

CX.S019 Carminio

CX.S035 Pesca

ColorepoxyLux
Glitter epoxy mortar

CX.S900 Neutro

CX.GL01 Diamante

CX.GL02 Zircone

CX.GL03 Topazio

CX.GL05 Smeraldo

CX.GL06 Acquamarina

CX.GL07 Zaffiro

CX.GL04 Ametista

CX.GL08 Rubino

GEV-EMICODE
EC1 PLUS
very low emission

This symbol is used to identify Mosaico+ products which give off a low level of volatile organic compounds (VOC) as certified by GEV (Gemein-schaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V.), an international organisation for controlling the level of emissions from products used for floors.

GREEN INNOVATION

Our Commitment To The Environment
Mosaico+ products assist Project Designers and Contractors create innovative LEED (The Leadership in Energy and Environmental Design) certified projects, in compliance with the U.S. Green Building Council.

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