



COLORFILL FLEX 0-8

High-performance mono-component cement mortar, polymer-modified, water-repellent and flexible, for grouting joints up to 8 mm



Certifications:

- EN 13888 – Classe: CG2

TECHNICAL SPECIFICATIONS



FIELD OF APPLICATION



APPLICATIONS



Description

COLORFILL FLEX 0-8 is a cement mortar (C) for gaps (G), improved (2), with low water absorption (W) and high resistance to abrasion (A), rated class CG2WA as per the EN 13888 standard.

COLORFILL FLEX 0-8 is a powdered cement ready-made product modified with polymers, to be prepared with the addition of water alone when used.

The presence in the formula of special hydrophobicising additives allows for obtaining grouting:

- extremely water-repellent;
- highly resistant to dirt adhesion;
- with excellent stability and durability.

Certifications

- ▶ EN 13888

COLORFILL FLEX 0-8 complies with the principles defined in the EN 13888 standard ("Sealants for tiles - Requirements, conformity assessment, classification and designation") with the following designation:

→ CG2WA

- Cement grout (CG);
- Cement grout with enhanced characteristics, reduced water absorption and high resistance to abrasion.

Colour

COLORFILL FLEX 0-8 is available in the 29 colours of the "I COLORI DEI FUGANTI" range.

Field of application

COLORFILL FLEX 0-8 is suitable for grouting indoor floors and outdoor paving and coatings of:

- ceramic tiles of any type (porcelain stoneware, clinker, single- and double-fired);
- Tuscan cotto, ceramic or vitreous mosaics;
- stone materials (natural stone, granite, natural or engineered marble, etc.)

COLORFILL FLEX 0-8 is suitable for grouting:

- tile gaps on residential walls and floors;
- swimming pool tile gaps;
- floors with very smooth and glossy surfaces (polished porcelain stoneware, pre-polished marble, glazed tiles);
- industrial ceramic floors not requiring resistance to chemical aggression (warehouses, car parks, etc.).

Advantages

COLORFILL FLEX 0-8 allows for obtaining grouting with the following characteristics:

- high water-repellency;

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- rapid curing, which ensures rapid commissioning;
- highly resistant to compression, flexing and freeze-thaw cycles, thus possessing excellent durability;
- a smooth and compact final surface which is easy to clean;
- very good resistance to adhesion;
- low shrinkage and hence no cracks or fissures;
- the colours are made with UV-resistant pigments.

General preparation of the laying support

On all supports, use normal state-of-the-art diligence and wait for the underlying adhesive layer to cure properly, checking that the gaps are clean for nearly the entire thickness of the tiles.

Specific preparation of the laying support

► Surfaces with porous tiles

The surfaces of certain tiles or stone materials may often have micro-pores or coarse patches that make them absorbent.

In these cases, we recommend carrying out a preliminary test with COLORFILL FLEX 0-8 to verify its perfect cleanability.

This will prevent indelible stains from appearing on the tiles once the job has been completed.

If necessary, pre-treat the surface with MASCHERA (see Technical Sheet), a stain-proofing product formulated for grouting, being very careful not to let it penetrate the gaps to be sealed.

Preparing the product

- Pour COLORFILL FLEX 0-8 into a clean container that was previously filled with water to between 25% and 27% by weight (1.25–1.35 l of water for a 5 kg bag) with respect to the powder, depending on the type of colour and whether the product is applied on the wall or floor.
- Mix the contents with a low-speed (500–600 rpm) mixer until obtaining a uniform mix.
- Leave the product to rest for 2–3 minutes then mix it again and use the mix within 90 minutes.

Application of the product

► Use of the mix

- Completely seal the gaps by carefully filling them using a soft trowel for grouts MODEL AZZ136 or a rigid trowel MODEL VER136B, avoiding empty patches or depressions.
- Immediately eliminate any excess product by trowelling the surface diagonally with respect to the gaps.
- Apply at temperatures between +5 and +35°C.

► Creation of the finish

- Depending on the ambient temperature and humidity, the top coat can be applied after an interval ranging from 20 minutes to several hours.

Nonetheless, the finish can be applied when the mix becomes matt and hardens.

- Remove residues of COLORFILL FLEX 0-8 using a cellulose sponge (model NR2910) and working diagonally with respect to the gaps.

Keep the sponge clean by washing it in water.

- If the mix has hardened excessively, cleaning can be effected with a dampened Scotch-Brite® pad (pad model NR1225B + handle model NR1525I).

- For large surfaces, the surfaces grouted with COLORFILL FLEX 0-8 can be finished using a specific self-cleaning machine with sponge belt (on the wet product).

With the product partially hardened, use a single-disc floor scrubber fitted with a Scotch-Brite® disc.

► Finishing of the surface

- For final cleaning of powdery spots, use a dry clean cloth and clean by hand, or use the same cloth under a single-disc floor scrubber mounting a Scotch-Brite® disc.
- After the final cleaning and 10–12 days after the gaps have been grouted, if the surface of the coating is still soiled with COLORFILL FLEX 0-8, it is possible to intervene with an acidic cleaner (e.g. NORDECAL FORTE or AZUR), by following the relevant instructions (see Technical Sheet).

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NOTE: only use NORDECAL FORTE on acid-resistant surfaces (never on marble or limestone) and in environments lacking elements or furnishing accessories sensitive to corrosion from acidic vapours.
In all other cases, use AZUR.

► Application in summer

- For high temperatures and very absorbent tiles, we recommend wetting the surface of the covering with a sponge, without allowing puddles to form.
- We also recommend wetting the surface of the grout itself once it has set, in order to lower its temperature and to create a barrier against evaporation which improves the product's final performance.

► To obtain uniform colours

- Do not apply on damp substrates to prevent colour alterations.
- For optimal results in terms of the colour shade, always use the same amount of water when mixing the product: make sure to carefully measure the water used in preparing the mix.

Once the joints have been filled with the mix, do not sprinkle with powdered COLORFILL FLEX 0-8 the material while it is drying, as this could cause uneven colour patches and reduce the mechanical resistance.

Consumption

type of application	minimum consumption	maximum consumption	UoM	dilution
Mosaic with 10 x 10 x 0.6 mm pieces, 1 mm gaps	0,17	0,18	kg/m ²	Mixed with water between 25% and 27% by weight on the powder.
Mosaic with 20 x 20 x 2 mm pieces, 1.5 mm gaps	0,44	0,46	kg/m ²	Mixed with water between 25% and 27% by weight on the powder.
200 x 200 x 9 mm tiles, 5 mm gaps	0,66	0,68	kg/m ²	Mixed with water between 25% and 27% by weight on the powder.
Large-format tiles 600 x 1200 x 12 mm, 8 mm gaps	0,35	0,37	kg/m ²	Mixed with water between 25% and 27% by weight on the powder.

► Formula for calculating consumption

For all tile or mosaic formats excluded from Table 1, the grout consumption can be calculated given the dimensions of the tile and of the gaps:

$$\text{Consumption in kg/m}^2 = (L + I) \times 1.48 \times F \times S : L : I$$

Cleaning of tools

- Wet product: clean with water (including a power wash).
- Hardened product: remove mechanically, soak and wash with acid detergents (NORDECAL FORTE, NORDECAL FORTE GEL or AZUR).

Useful application tips

- Read the Safety Sheet carefully before using the product.

• Application temperature:

→ Apply at a temperature between +5°C and +35°C.

→ Do not apply any type of grout on surfaces that are frozen or likely to freeze within the next 24 hours.

• Mix:

→ when preparing the product, be careful not to use rusty containers;

→ never mix COLORFILL FLEX 0-8 with dirty or salty water, or water that has been stored in rusty containers;

→ do not mix COLORFILL FLEX 0-8 with cement or other products and never add water to the mix that is starting to set;

→ the mix water must be precisely batched, since adding too much water can result in a whitish patina appearing on the surface of the grouting (efflorescence);

→ if mixes with different mixing ratios are prepared, they may have colour differences.

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- Field of application:

→ do not use in expansion joints or joints which may move (for such applications, use elastomeric sealants such as NORDSIL AC).

- Use of the finished surface:

→ do not use in environments where acidic cleaning products are used.

Maintenance

- ▶ Efflorescence and whitening

- The appearance of efflorescence on the surface of the grouting is due to the formation of calcium carbonate, and may also be due to residual damp in incompletely hydrated adhesives or mortar, or in damp substrates or substrates not sufficiently protected against rising damp.

- If efflorescence appears, clean the surface thoroughly by removing the white patina as much as possible.

- Apply STAIN FLOOR T, a solvent-based coloured polyurethane consolidating-impregnating agent (see Technical Sheet), taking care not to stain the surface of the tile.

- Wait 24 hours until the impregnating agent cures completely.

Technical data

▶ PRODUCT IDENTIFICATION DATA	UoM	value
Consistency	-	Powder
Density in bunch, EN 1097-3	kg/L	1,2 ± 0,1
Solid residue	-	100%

▶ APPLICATION DATA AND FINAL PERFORMANCES	UoM	Value
Mix water	-	25% – 27%
Density of the mix, EN 1015-6	kg/L	1,90 ± 0,05
Pot-life of the mix	min	90 ± 15
Application temperature	°C	From +5 to +35
Width of the sealable joint (Minimum - maximum)	mm	0 – 8
Grouting execution time after bonding ON WALL (all types of adhesive)	hours	2 – 3
Grouting execution time after bonding ON FLOOR (with normal-setting adhesive)	hours	3 – 4
Grouting execution time after bonding ON FLOOR (with rapid-setting adhesive)	hours	12 – 24
Frost protection time after application	hours	24 – 36
Stand-by time between the application and the finish	min	20 – 30
Walk-over time (at +23°C, 50% R.H.)	hours	12 – 24
Minimum commissioning time (at 23°C, 50% R.H.)	days	2 – 3

▶ TECHNICAL DATA IN CONFORMITY TO EN 13888	UoM	value
Water absorption after 30 min, EN 12805-5	g	≤ 2
Water absorption after 240 min, EN 12805-5	g	≤ 5
Linear shrinkage, EN 12808-4	mm/m	≤ 3
Compressive strength after dry storage, EN 12808-3	MPa	25,0 ± 0,2
Flexural strength after dry storage, EN 12808-3	MPa	7,5 ± 0,1
Compressive strength after freeze-thaw cycles, EN 12808-3	MPa	> 15
Flexural strength after freeze-thaw cycles, EN 12808-3	MPa	> 2,5
Resistance to abrasion, EN 12808-2	mm ³	≤ 1000

Storage of the product

- 12 months in the closed PAPER BAG, in a dry and covered place away from direct sunlight, at a temperature between +5°C and +35°C. Protect against humidity.

- 24 months in the closed PLASTIC PACKAGING, in a dry place at a temperature between +5°C and +35°C.

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Packages

VARIANT	PACKAGE	ADR	PACKAGES PER PALLET	COMPONENTS
(01) BIANCO F (1)	4 sacchetti da 5 kg	NO	24 scatole	
(01) BIANCO F (1)	25 kg bag	NO	48 sacchi	
(60) BLU ACCIAIO F	4 sacchetti da 5 kg	NO	24 scatole	
(60) BLU ACCIAIO F	25 kg bag	NO	48 sacchi	

Legenda ADR:

NO = merce NON PERICOLOSA

Note:

(1): Product also available in the following colours: BIANCO ANTICO F, GRIGIO ARGENTO F, GRIGIO PERLA F, GRIGIO SETA F, GRIGIO FERRO F, GRIGIO CEMENTO F, GRIGIO 4 F, ANTRACITE F, NERO F, CREMA F, AVORIO F, BEIGE F, TORTORA F, PERGAMENA F, ROSA ANTICO F, ROSSO ARANCIO F, ROSATO F, CARAMELLO F, MARRONE 1 F, ULIVO F, CASTAGNO F, CIOCCOLATO F, ROVERE F, GIALLO SOLE F, CELESTE F, VERDE PALLIDO F, VERDE SCURO F.

LEGAL NOTES

Advice on how to use our products corresponds to the current state of our knowledge and does not involve the assumption of any guarantee and / or responsibility for the final result of the work. They do not refore exempt the customer from the responsibility of verifying the suitability of the products for the use and the prefixed purposes through preventive tests. The website www.nordresine.com contains the latest revision of this datasheet.

EDITION

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