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VELO WEST AFRICA



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CLASSIFICATION ACCORDING TO EN 13888

GROUT is a cementitious (C), not irritating mortar for grouting (G) improved (2), with reduced water absorption (W) and high resistance to abrasion (A), class CG2WA.

FIELD OF APPLICATION

Grouting interior and exterior floor and wall tiling (single fired, double fired, klinker, porcelain tile, etc.), stone material (natural stones, marble, granite, agglomerates, etc.), glass and marble mosaics.

Application examples

- Grouting floor and wall ceramic tiles in interiors.
- Grouting swimming pools.
- Grouting particularly smooth and glossy floor surfaces.
- Grouting ceramic tile industrial flooring where resistance to chemicals agents is not required.

TECHNICAL CHARACTERISTICS

GROUT is a blend of cement, very fine-graded aggregates, special polymers, additives and pigments. The use of special hydrophobic additives (Drop Effect technology) gives grouting mortars highly water repellent properties, making them less prone to dirtiness and with excellent durability. When it is mixed with water in the proportions recommended and correctly applied, GROUT forms a grouting mortar with the following characteristics:

- Water-repellent and droplet-effect;
- Good compressive and flexural strength, good durability;
- A smooth final surface with low water absorption, therefore easy to clean;
- Very good abrasion resistance;
- Low shrinkage, therefore absence of cracks and fissures;
- Good resistance to acids with pH >3;
- Excellent value for performance.

RECOMMENDATIONS

- Do not mix GROUT with cement or any other products. Never add water to the mixture that is beginning to set.
- Do not blend different colors of grout together as there is a risk of color inconsistency and lack of uniformity of the final shade once the grout has set.
- Never mix GROUT with salty or dirty water.
- Use the product in temperatures between +5°C and +35°C.
- The amount of mix water must be precisely measured. Excess water could induce the appearance of a whitish coat over the surface (efflorescence).

Different color tones could result if mixtures with different water ratios are prepared. Efflorescence over the surface is due to the formation of calcium carbonate and could also be caused by residual moisture contained in adhesives, not fully hydrated grouts, in substrates not adequately dried, or in substrates not adequately protected from rising damp.

- Expansion and movement joints on walls and floors must never be filled with GROUT.

APPLICATION PROCEDURE

Preparing the joints

Grouting may take place when the adhesive is completely set. Make sure that the waiting times indicated in the technical data sheets are followed. The joints must be clean, free of dust and empty down to at least 2/3 of the thickness of the tiles. Any adhesive or mortar which has seeped into the joints while laying the tiles must be removed while still fresh. With very absorbent tiles, high temperatures or windy conditions dampen the joints with clean water.

Preparing the mix

While stirring, pour GROUT into a clean, rust-free container containing 26-28% by weight of clean water. Mix the grout with a low-speed mixer to avoid air entrainment, until a smooth paste is obtained. Let the mix stand for 2-3 minutes, and stir again briefly before use. Use the mix within 20-25 minutes of its preparation.

Applying the grout

Fill the joints with the GROUT mix using a special grout float or rubber squeegee, without leaving any gaps or steps. Remove any excess of GROUT from the surface, by moving the float or the rubber squeegee diagonally to the joints while the mix is still fresh.

Finishing

When the mix loses its plasticity and becomes opaque, which usually takes place after 15-30 minutes, clean off the excess GROUT with hard cellulose, damp sponge, working in a diagonal direction to the joints. Rinse the sponge frequently, using two different containers of water: one to remove the excess mix from the sponge, and the other, containing clean water, to rinse the sponge. This operation may also be carried out with a machine with a sponge belt. If the cleaning operation is carried out too soon (the mix is still too plastic), some of the mix may be removed from the joints, which may change their color. If grouting is carried out in extremely hot, dry or windy weather, we recommend that the joints filled with GROUT are dampened after a few hours. Damp curing of GROUT improves its final characteristics in all cases. Final cleaning of the powdery film of GROUT from the surface may be carried out with a clean, dry cloth.

TECHNICAL DATA

Product identity

Consistency:	fine powder
Color:	30 colors
Bulk density (kg/m ³):	1,400
Dry solids content (%):	100
EMICODE:	EC1 Plus - very low emission

Application data (at +23°C - 50% R.H.)

Mixing ratio:	26 – 28% water, dependent on the color
Consistency of the mix:	fluid paste
Density of mix (kg/m ³):	1,980
pH of mix:	approx. 11
Pot life of mix:	20-25 minutes

Application temperature range: from +5°C to +35°C

Final performances

Flexural strength after 28 days (N/mm ²) (EN 12808-3):	6
Compressive strength after 28 days (N/mm ²) (EN 12808-3):	25
Flexural strength after freeze/thaw cycles (N/mm ²) (EN 12808-3):	6
Compressive strength after freeze/thaw cycles (N/mm ²) (EN 12808-3):	25
Abrasion resistance (EN 12808-2):	900 (loss in mm ³)
Shrinkage (mm/m) (EN 12808-4):	1.5
Water absorption (g) (EN 12808-5) after 30 minutes:	0.3
Water absorption (g) (EN 12808-5) after 4 hours:	0.5
Resistance to solvents and oil:	excellent
Resistance to alkalis:	excellent
Resistance to acids:	good resistance to acids, pH > 3

SET TO USE

Floors are ready for light foot traffic after approx. 24 hours.

Surfaces grouted with GROUT may be put into service after 7 days.

Basins and swimming pools may be filled up 48 hours after grouting.

CONSUMPTION

The consumption of GROUT varies according to the size of the joints and the size and thickness of the tiles.

PACKAGING

5Kg plastic bag

STORAGE

GROUT may be stored for 24 months if in its original packaging in a dry place. However, after a certain amount of time, the setting time may extend but without modifying the final characteristics of the product. The product complies with the conditions of Annex XVII to Regulation (EC) N° 1907/2006 (REACH) - item 47.

SAFETY INSTRUCTION FOR PREPARATION AND INSTALLATION

GROUT contains cement, that when in contact with sweat or other body fluids, causes an irritant alkaline reactions and allergic reactions to those predisposed. It can cause damage to eyes. During use, wear protective gloves and goggles and take the usual precautions for handling chemicals. If the product comes in contact with the eyes or skin, wash immediately with plenty of clean water and seek medical attention. For further and complete information about the safe use of our product please refer to the latest version of our Material Safety Data Sheet. PRODUCT FOR PROFESSIONAL