

ISO GROUT PLUS^{CG2WA}

Product Data Sheet (TDS)

DESCRIPTION

ISO GROUT PLUS is a one component, polymer modified, water resistant, cementitious tile grout, a composite blend of cement, special polymers, additives, and pigments, that when mixed with water produces a featured tile grout typically designed for wide joint widths up to 12 mm. ISO GROUT PLUS is available in a wide range of trend colours that provide a durable, smooth and attractive finishing for grouting in an interior and exterior application.

USES

Grouting interior and exterior floor and wall tile joints of ceramic, natural stones, marble, granite, and mosaics up to 12 mm joints in commercial and residential buildings.

ADVANTAGES

- Low shrinkage rate, free of cracks.
- Durable, good compressive and flexural strength, good resistance to freeze/thaw cycles.
- Non-Sag/slump application suitable for walls.
- Good abrasion resistance.
- Water-repellent and impermeable to many liquids.
- Easy to use, requires only the addition of water.
- Long open time (enough time to clean residues from the tiles after application).
- Stable uniform colours and available in a wide modern range.
- Fungal and mould resistance

STANDARDS

ISO GROUT PLUS is an improved (2) cementitious (C) grout (G), with reduced water absorption (W) and high abrasion resistance (A), classified as CG2WA according to ISO 13007-3 and BS EN 13888 Standard.



PRODUCT & TECHNICAL DATA

Composition	Cement, polymers, fillers pigments, and additives.
Consistency	Fine powder
Colour	23 colours from the ISO GROUT PLUS range
Bulk Density	1.58 ± 0.01 g / cm ³
Mix Density	1.88 ± 0.01 g / cm ³
Pot life	2 hours
Mixing ratio	1.25 - 1.45 L of water per 5 kg
Joint width	up to 12 mm
Waiting time for finishing	10 – 20 minutes
Compressive strength Flexural strength Abrasion resistance Shrinkage Water absorption	Complies with ISO 13007-3 and BS EN 13888 standards requirements for CG2WA classification.
Resistance to moisture, ageing, solvents, oils, alkalis and acids	Very good
Set to light foot traffic	1 - 2 Days
Ready for use	3 - 4 Days
Application Temperature Range	(+5 °C) – (+35 °C)
Substrate temperature	(+5 °C) – (+35 °C)
Service Temperature Range	(-25 °C) – (+75 °C)

CONSUMPTION

The approximate consumption of ISO GROUT PLUS can be calculated as per the following equation:

$$((W+L))/((W \times L)) \times T \times J \times 2.5 = \text{kg} / \text{m}^2$$

W = width of tile (in mm)

L = length of tile (in mm)

T = Depth of joint (in mm)

J = width of joint (in mm)

Note: The consumption calculated according to the previous equation is subject to a tolerance of ± 10%.

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APPLICATION PROCEDURE

Joists preparation

Ensure that the adhesive has completely dried and hardened before grouting. Adhesive should be left for 24 hours before applying ISO GROUT PLUS.

Tile joints and adjacent surfaces must be properly cured, structurally sound, clean, dry, and free of all contaminants such as dust, dirt, oil, grease, cement laitance, or obstructions such as excess tile adhesive residue.

In hot conditions or/and highly absorbent tiles, thoroughly pre-dampen the surfaces before the product application, and remove any standing water, it must be saturated surface dry (SSD).

Mixing

Pour 5 KG ISO GROUT PLUS powder into a clean, rust-free container containing 1.25 - 1.45 L (25 - 29 % by weight) of water, depending on the desired consistency, of clean water.

Mix with a low speed (<500 rpm) mixer to avoid excess formation of air bubbles. Mixing time should be continued for 3 minutes until a uniform consistency and free of lumps mixture is obtained. After mixing, leave the mixture to stand for a few minutes, then briefly stir again before application.

In case of high-performances demanding applications, such as heavy-traffic floors, swimming pools, and other water retaining areas, it's recommended to modify ISO GROUT PLUS with ISO BOND S.B.R 1030 or ISO BOND PLUS 1036 (0.5 liter ISO BOND S.B.R per 5 kg ISO GROUT PLUS + balance amount of water).

Application

Apply ISO GROUT PLUS using a rubber blade or trowel, and ensure the joints are filled uniformly and completely compacted across the whole width and along their full length.

Immediately, using the same blade/trowel remove the excess grout from the surface of the tiles by scraping diagonally.

When the grout starts to set, it is possible to begin the initial cleaning step, using a damp sponge. Failure to do so may result in difficulty in removing any remains and makes it necessary to use a mechanical means in cleaning, which may scratch the tile surfaces. When ISO GROUT PLUS is modified with ISO BOND S.B.R 1030 or ISO BOND PLUS 1036 has been used additional cleaning step should be done immediately after the initial cleaning with a damp sponge. Always carry out cleanability testing prior to the application.

Recommendations

- Don't use ISO GROUT PLUS with joint widths exceeding 12 mm.
- Don't mix ISO GROUT PLUS with cement or any other products that are not specified in this Product Data Sheet.
- Don't use ISO GROUT PLUS to fill expansion, contraction, or construction joints in walls and floors. These joints should be filled with a suitable flexible sealant from the ISOBIT sealant range.
- Don't use ISO GROUT PLUS on industrial floors where high chemical resistance is required.
- Don't exceed the recommended measured amount of water in the mix.
- Don't mix ISO GROUT PLUS with salty or dirty water.
- Don't add water to the mixture that is beginning to set. Discard it, and use a fresh one.

Curing

Protect freshly applied material from rain and water splashes until cured. When applying in extremely hot, dry or windy climates, it is recommended to wet the joints after several hours. Wet curing of ISO GROUT PLUS improves its final performance.

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CLEANING

Clean all the tools with water immediately after use. Hardened materials can be removed mechanically only.

PACKING

ISO GROUT PLUS is supplied in 5 kg pails.

SHELF LIFE

Shelf life is up to 24 months from production date when stored as per recommendations.

STORAGE

Product must be stored in original unopened packaging, under cover, out of direct sunlight and protect from extreme temperatures. In tropical climates the product must be stored in air-conditioned environment.

HEALTH AND SAFETY

As with all construction chemical products, caution should always be exercised. Wear gloves, coveralls and goggles during handling. ISO GROUT PLUS may irritate the skin or eyes due to it contains cement. In case of accidental contact with eyes, immediately flush with plenty of water for at least 10 minutes and seek medical advice if necessary. Treat any splashes to the skin with fresh water. If the product is swallowed accidentally, do not induce vomiting, but call for medical assistance immediately.



ISOBIT

No.	Colour Name	Colour Code
1	Super Black	1010
2	Dark Ash	1012
3	Ash	1014
4	Light Grey	1015
5	White	3030
6	Light Beige	3031
7	Dark Cream	3035
8	Beige	3034
9	Eggnog	3032
10	Brown	4040
11	Sienna	4041
12	Ochre	3036
13	Beech Wood	4042
14	Sandy Beach	3033
15	Chili Red	5054
16	Green	6062
17	Maya blue	2022
18	Silver	1016
19	Granite	2020
20	Dark Brown	4044
21	Sand	3039
22	Cedar	4043
23	Ruby	5053

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