



LITOCHROM 1-6

**HIGH-PERFORMANCE CEMENTITIOUS GROUT
FOR CERAMIC TILES WITH JOINTS FROM 1 TO 6 mm**



DESCRIPTION

Powder cementitious grout consisting of hydraulic binders, inert fillers of selected particle size, polymers, organic additives and pigments. Available in various sizes (see colour chart).

CLASSIFICATION EN 13888

LITOCHROM 1-6 + 27-28% WATER

Class CG2

Enhanced cementitious grout with high abrasion resistance and low water absorption

PACKAGING

5 kg plastic bags (boxes of 5) - Standard pallet 900 kg

25 kg bag - Standard pallet 1200 kg

FIELDS OF APPLICATION

Suitable for grouting floors or walls in interiors or exteriors clad with joints between 1 and 6 mm. The product consists of a right quantity of water-retaining substances that compensate the absorption of high and middle porous ceramic tiles.

Thanks to these features, Litochrom 1-6 is particularly suitable for single or double-fired ceramic tiles and enables an uniform colour without efflorescences.

Also suitable for vitreous mosaic.

APPLICATION PHASES

PRELIMINARY CHECKS AND JOINT PREPARATION

Check that the tiles do not present problems of cleaning or surface absorption. Check that the adhesive or mortar used to fix the tiles has completely hardened and dried. The joints must be clean, free of powder and empty down to all the tile thickness.

Any adhesive or mortar that has squeezed up inside the joints must be removed. When grouting highly absorbent tiles and in very hot weather, moisten the joints by wiping them with a sponge soaked in water.

USE OF IDROSTUK

In the case of tiled surfaces subject to intense traffic, balconies, terraces, swimming pools, etc., Litochrom 1-6 can be mixed with Idrostuk aqueous dispersion additive as a complete substitute for water. This further increases the performance of the finished grout work.

MIXING RATIOS

LITOCHROM 1-6 5 kg (1 plastic bag)

WATER or IDROSTUK 1,35-1,40 L (27-28%).

LITOCHROM 1-6 25 kg (1 bag)

WATER or IDROSTUK 6,75-7,00 L (27-28%).

MIX PREPARATION

Pour the correct quantity of liquid into a clean container and slowly add the powder. Mix with an electric drill equipped with mixing paddle until a uniform, lump-free mix is obtained. Leave the mix to sit for at least 5 minutes then re-mix briefly for a few seconds.

GROUTING

Pack the grout into the joints using a special rubber float. Pull the float diagonally across the grout joints, taking care to fill the entire depth of the joints right up to the tile surface without leaving voids. Remove excess grout using the rubber float.

CLEANING AND FINISHING

When the grout has lost its plasticity and has become dull (normally after 5 to 20 minutes depending on the absorption of the tiles and climatic

conditions), clean and finish the surface of the joints using a wet stiff cellulose sponge.

Again perform diagonal movements with respect to the joints to avoid the risk of removing any of the grout. If cleaning is performed too soon, i.e. while the grout is still plastic, some of the grout may be pulled out of the joints and the colour of the finished grout work will not be uniform.

The film of dried product that remains on the surface of the tiles can be removed using a dry cloth. If traces of product remain on the surface of the tiles after cleaning, use LITOCLEAN powder acid cleaner or LITOCLEAN PLUS liquid cleaner (read technical sheets) after about 6-7 days of curing. Do not use LITOCLEAN or LITOCLEAN PLUS with materials that are not resistant to acids such as marble and limestone.

CAUTIONS

- Apply the product at temperatures of between +5°C and +35°C.
- Do not add lime or cement to the product.
- Use solely clean water for mixing.
- Excessive quantities of water in the mix may adversely affect the mechanical characteristics of the hardened product and alter the colour of the grout work.
- Moisture rising from the substrate or present in the mortar or adhesive used for fixing the tiles may cause whitish efflorescence to appear.
- Mixes made with different quantities of water may correspond to different colours of the finished grout work.
- Depending on the degree of absorption of the tiles, the colour may be lighter (non-absorbent tiles) or darker (absorbent tiles) than shown on the colour chart.
- Some kinds of tiles (e.g. polished porcelain tile) and natural stone have rough, microporous surfaces, making them susceptible to staining and very difficult to clean. In this case preliminary test applications should be performed. Avoid using grouts with contrasting or excessively dark colours.
- In very hot or windy weather, it is advisable to wet the grouting a few hours after application to improve hydration of the cement contained in the product.
- Do not use for applications not stated on this technical sheet.

APPLICATION DATA

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
Mixing ratios	Water or Idrostuk = 27-28% 1,35-1,40 L (1 plastic bag) 6,75-7,00 L (1 bag)
Maturing time	5 minutes
Mix consistency	Creamy
Specific gravity of mix	1,94 kg/l
Pot life	About 2 hours
Application temperature	From +5°C to +35°C
Time before cleaning	From 5 to 20 minutes depending on absorption and temperature
Walk on time	24 hours
Ready for use	7 days
Joint width	From 1 to 6 mm

	Tile size (cm)	Joint width (mm)	Consumption (kg/m²)
Consumption	1 x 1 x 0,4 5 x 5 x 0,4	2	2,39 0,48
	10 x 10 x 0,6 15 x 15 x 0,6	1 - 2 - 4	0,18-0,36-0,72 0,12-0,24-0,48
	15 x 20 x 0,6 25 x 25 x 1,2	2 - 3 - 4	0,21-0,31-0,42 0,29-0,43-0,57
	25 x 33 x 0,8 33 x 33 x 1	3 - 4 - 6	0,25-0,34-0,5 0,27-0,36-0,54
	30 x 45 x 1 45 x 45 x 1,2	4 - 6	0,33 - 0,5 0,32 - 0,48

INFORMATION ON SAFETY

Consult the Material Safety Data Sheet, available on request.

PRODUCT FOR PROFESSIONAL USE.

PERFORMANCE

Abrasion resistance EN 12808-2	< 1000 mm³
Mechanical flexural strength after 28 days in standard conditions EN 12808-3	> 2,5 N/mm²
Mechanical compressive strength after 28 days in standard conditions EN 12808-3	> 15 N/mm²
Mechanical flexural strength after freeze-thaw cycles EN 12808-3	> 2,5 N/mm²
Mechanical compressive strength after freeze-thaw cycles EN 12808-3	> 15 N/mm²
Shrinkage EN 12808-4	< 3 mm/m
Water absorption after 30 minutes EN 12808-5	< 2 g
Water absorption after 4 hours EN 12808-5	< 5 g
Temperature of use	From -30°C to +80°C
Resistance to acids	No
Resistance to alkalis	Good

IDENTIFICATION DATA

Appearance	Powder		
Colours available	C.00 Bianco	C.90 Terracotta	C.160 Azzurro Cielo
	C.50 Jasmine	C.200 Wengè	C.170 Crocus
	C.130 Sabbia	C.20 Grigio Chiaro	C.150 Menta
	C.60 Bahama Beige	C.30 Grigio Perla	C.140 Rosa
	C.10 Grigio	C.120 Marrone Chiaro	
	C.80 Caramel	C.40 Antracite	
	Classification to EN 13888	CG2 – Enhanced cementitious grout with high abrasion resistance and low water absorption	
Customs code	3824 5090		
Shelf life	Colours Grey and Anthracite: 12 months (Dir.2003/53/CE-D.M. 10.05.04). Other colours: 24 months in original packaging in dry place		

Per quanto le informazioni riportate in questa scheda tecnica siano il frutto della nostra migliore esperienza, hanno un valore puramente indicativo. Ogni caso specifico deve essere sottoposto a prove pratiche preliminari da parte dell'utilizzatore che si assume la responsabilità dell'esito finale del lavoro.

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