X-Color® 06

Technical specifications

Extra-fine decorative grout, with a silk effect, reinforced with polymers for the high-durability grouting of joints from 0 to 6 mm, suitable for tiles, porcelain stoneware, slabs, mosaics and natural stones, on floors and walls, both indoors and outdoors.

Product description

Extra-fine decorative grout, with a silk effect, reinforced with polymers for the high-durability grouting of joints from 0 to 6 mm, suitable for tiles, porcelain stoneware, slabs, mosaics and natural stones, on floors and walls, both indoors and outdoors. Extremely bright and vivid colours. Water-repellent with low water absorption. Effective protection against micro-cracks, flaking and surface degradation. Greater resistance to efflorescence.

Classified CG2WA - EN 13888

Proprietary formula

Hybrid engineered hydraulic binders
Latest generation cellulose and rheological additives
High content of micronised mineral aggregates
Impalpable pure marble powder
Extra-fine granulometry - 20-100 µm range

X-Color® embodies Litokol's continuous scientific progress.
It is designed with innovative raw materials to improve the installation experience and safety, and to reduce the environmental impact.

Performance

Creamy mixture and super smooth application.
Easy and fast cleaning, designed to be applied and cleaned effortlessly. Spongeable 20-25 minutes after application.
Long-lasting, stable and consistent colours: the use of very high-quality inorganic pigments gives the material a bright and vivid appearance
Smooth, silky joints: the use of impalpable powder of pure extra-fine marble (20-100 µm) guarantees a compact and smooth surface for easy maintenance.
High adhesion to tile edges.
Water-repellent: grouting made with X-Color 0-6® repels water, helping to reduce absorption, preserving the integrity and durability of the material.
Designed to ensure maximum durability, even in difficult environmental conditions.
Effective protection against micro-cracks, flaking and surface degradation.
Advanced technology to reduce the appearance of white stains (efflorescence) caused by soluble salts.

Certifications

EN 13888
ISO 13007
EC1 Plus Gev Emicode
A+ Emissions dans l'air interieurs
EPD Environmental Product Declaration

X-Color® 06 and the Environment

LCA results for Global Warming Potential – Greenhouse Gas GWP-GHG

Impact category	Unit	A1-A3	C1	C2	C3	C4	D
Climate change GWP-GHG	kg CO2 eq	6.83 10^{-1}	4.38 10^{-3}	1.12 10^{-2}	0	1.33 10^{-2}	-7.96 10^{-3}

Materials

Ceramic and vitreous mosaics
Porcelain stoneware
Large sizes
Laminated stoneware slabs
Ceramic and porcelain tiles
Marble – Granite – Stone
Recomposed stone made with resin or cement

Uses

Floors - walls
Interiors - exteriors
Underfloor heating systems
Façades
Tanks, swimming pools and fountains
SPA - Hammam
Terraces and balconies
Indoor wet areas - bathrooms and showers

Product specifications

Appearance	Powder
Colour	See colour chart - The Colours of the Earth
Responsible Packaging	3 kg bag - 20 kg recyclable bag
Shelf life	3 kg bag - 24 months in original packaging in a dry place.
Shelf life	20 kg recyclable bag - 12 months in original packaging in a dry place.
Customs code	38245090

Technical specifications

Compliance	**EN 13888 – ISO 13007**	**CG2WA**
Resistance to abrasion	≤ 1000 mm^3	EN 12808-2
Compressive strength after 28 days	≥ 15.0 N/mm^2	EN 12808-3
Flexural strength after 28 days	≥ 2.5 N/mm^2	EN 12808-3
Shrinkage	≤ 1.5 mm/m	EN 12808-4
Water absorption after 30 minutes	≤ 2 g	EN 12808-5
Water absorption after 240 minutes	≤ 5 g	EN 12808-5

Specifications for application

Mix ratio	Water = 28-30% (approx. 0.8-0.9 litres of water per 3 kg bag)
Mix ratio	Water = 28-30% (5.6 - 6 litres of water per 20 kg bag)
Consistency of mix	Creamy thixotropic mortar
Specific gravity of mix	1.94 kg/dm^3
Pot life	~ 40 min
Joint width	From 0 to 6 mm
Application	X-Color® grout rubber float
Application temperatures	From +5°C to +35°C
Ready for light foot traffic	24 h
Ready for use	7 days - Swimming pools 14 days
Temperature of use	From -30°C to +80°C
How to clean equipment	With water when product is fresh. Mechanically when product has set.
Notes	Data detection at temperature +23 °C, R.H. 50% and with no wind. May vary depending on the specific conditions of the installation site.

Calculation of consumption

Formula for calculation of consumption: (A+B)/(AxB) x C x D x 1.94 = kg/m^2

A = tile length (in mm)
B = tile width (in mm)
C = tile width (in mm)
D = joint width (in mm)

In regards to the calculation of consumption for the different tile sizes and joint widths, refer to the product calculator available at www.litokol.com

Substrate preparation

Check that the adhesive has set completely and is dry.
The joints must be dry, clean, free from dust and empty for at least 2/3 of the tile thickness.
Any adhesive that overflows during installation must be removed while still fresh.

Preparing the mixture

To fully appreciate the superior smoothness and creaminess of X-Color® 06, mix the product according to the indicated mixing ratio.
Pour the right quantity of water, depending on the application, into a clean container and slowly add the powder, stirring with an electric drill with mixing paddle until a consistent mix is obtained without lumps.
Let the mixture rest for about 5 minutes: the hydraulic binders, fillers and cellulose hydrate uniformly, air micro-bubbles incorporated during mixing are eliminated, and the polymers begin their activation process.
The pot life is about 40 minutes at a temperature of +23°C. Be sure to mix only the quantity of product that can actually be used within this period of time
Do not use quantities of mixing water greater than those indicated to avoid product shrinkage during curing and the lowering of the final mechanical properties.
Hand mixing is not recommended.

Application

Apply the mix in the joints using the special X-Color® grout rubber float until saturated, making diagonal movements with respect to the direction of the joints and removing any excess material from the surface of the ceramic covering.

Special Applications

Mixing with BoostColor®
For tiled surfaces subject to high stress, like heavy traffic areas, terraces, balconies and wet environments such as swimming pools, it is possible to completely replace the mixing water with the additive BoostColor® in H2O phase. This advanced solution optimises the molecular structure of the grout, significantly improving its durability, adhesion and resistance to the elements and to chemical agents.

Cleaning and finishing

The surfaces must be cleaned and the grouting finished while the product is still fresh, taking care not to empty the joints.
Once the product has lost its plasticity and becomes opaque (normally after 15-30 minutes depending on the joint width), clean and finish the grouting surface with a well-wrung damp X-Color® sponge without leaving water deposits on the fresh product.
Any dried product halos can be easily removed from the surface of the ceramic covering using a clean rag after setting.
If product traces are still present on the tile surface after cleaning, they can

be removed with the acid detergent X-Cleaner or X-Cleaner Forte.
Do not use X-Cleaner or X-Cleaner Forte in the case of non-acid-resistant materials such as marble or polished natural stones.

Sealing and maintenance

For the elastic sealing of expansion, control and perimeter joints, use sealants from the Pixel 3D line.
For the correct maintenance and protection of the surfaces use specific Litokol detergents from the X-Cleaner line.

Warnings

Due to the qualitative differences in worldwide ceramic production (e.g., polished porcelain stoneware), the many morphological types of marble and natural stones, and the various mixtures used in the engineering of mosaics found on international markets, it is advisable to perform a preliminary grouting test to determine any incompatibilities or cleaning difficulties.
Do not add lime, cement or other foreign materials to the product.
Before application, make sure that the adhesive used to lay the tiles or mosaics has dried completely.
Change the sponge when it is saturated with product.
Mixes with different amounts of water may affect the final colouring.
When the grouting is not yet hardened, avoid concurrent work that could produce dust, as this may compromise the final aesthetic quality.
Protect against direct sunlight or strong air currents for the first 12 hours after application.
Do not directly cover the freshly grouted surface with sheets or other materials to avoid condensation, which would result in the carbonation of the product and alter its colour uniformity. Wait at least 24 hours, depending on the temperature, before protecting the surface with breathable materials.
Do not use the product for applications not indicated in this Technical Data Sheet.
For further information, contact the Litokol Technical Help Service at +39-0522-622811 or via customercare@litokol.com.

Colour chart

The Colours of the Earth - Selection of Colours curated by Piero Lissoni

The colours are for indicative purposes only.

Information regarding safety

For the safe use of our products, refer to the latest version of the Safety Data Sheet, available on the website www.litokol.com
PRODUCT FOR PROFESSIONAL USE

Legal notes

The information and provisions contained in this technical data sheet reflect our best experience.
Given the impossibility of directly intervening on the conditions of the work site and execution of the works, they represent indications of a general nature, which are in no way binding for our Company.
It is therefore recommended to perform a spot test in order to check the suitability of the product for the intended use. In any case, those who intend to use the product must establish whether or not it is suitable for the intended use, and in any case assume all liability for any consequences resulting from such use.
Always refer to the latest updated version of the Technical Data Sheet, available on the website www.litokol.com

Item specification

The grouting of highly durable joints from 0 to 6 mm, both indoors and outdoors, in accordance with Standards UNI 11493-1 and 11714-1, for floors and wall coverings made from all types of tiles, porcelain stoneware, large format slabs, mosaic, marble and stone materials, will be carried out using an extra-fine, silk-effect decorative grout, reinforced with polymers, classified as GG2WA according to Standard EN 13888: X-Color® 06 by Litokol Lab SpA.

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Litokol Lab Spa Via G. Falcone 13/1 42048 Rubiera RE Italy
Tel. +39 0522 622811 info@litokol.com www.litokol.com