



IDROSTUK

LIQUID ADDITIVE IN AQUEOUS DISPERSION FOR LITOCHROM CEMENTITIOUS GROUTS



DESCRIPTION

Synthetic latex in aqueous dispersion

FIELD OF APPLICATION

Liquid additive to be used for mixing Litochrom cementitious grouts as a total substitute for water. The additive improves the characteristics of the finished grout work. In particular increases adhesion to the sides of the tiles and abrasion resistance and reduces water absorption and porosity. It is therefore suitable for use with tiled surfaces subject to high physical and mechanical stress such as terraces, balconies, swimming pools, industrial floors, gypsum board, etc. The product can be used with cementitious grout of any colour without significantly altering the colour.

CLASSIFICATION EN 13888

LITOCHROM 1-6 + 33-34% IDROSTUK

LITOCHROM 3-15 + 18-20% IDROSTUK
Class CG2

Enhanced cementitious grout with high abrasion resistance and low water absorption.

PRELIMINARY CHECKS AND JOINT PREPARATION

Check that the tiles do not present problems of cleaning or surface absorption. Some kinds of tiles (e.g. polished porcelain tile) and natural stone have rough, micro porous surfaces, making them susceptible to staining and extremely difficult to clean. In this case preliminary application checks should be performed. Avoid using grouts with contrasting or excessively dark colours. Check that 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 at least 2/3 of the tile thickness. Any adhesive or mortar that has squeezed up inside the joints by wiping them with a sponge soaked in water.

| MIXING RATIOS *Quantity of IDROSTUK (kg) | GROUT CONTAINERS (kg) | LITOCHROM 1 - 6 | LITOCHROM 3 - 15 |
|--|--------------------------|-----------------|------------------|
| | 5 | 1,65 – 1,7* | 0,9 – 1* |
| 25 | 8,25 – 8,5* | 4,5 – 5* | |

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 joints, taking care to fill the entire depth of the joints right up to the file 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 pull the float diagonally across the grout 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 remain on the surface of the tiles can be removed using a dry

cloth. If traces of product remain in the surface of the tiles after cleaning, use Litoclean powder acids cleaner (read technical sheet) after about 6-7 days of curing. Do not use Litoclean with materials that are not resistant to acids such as marble and limestone.

CAUTIONS

- Apply at temperatures of between +5°C e +35°C.
- Do not use for grout Tuscan terracotta or materials with a highly absorbent surface.
- Excessive quantities of additive in the mix may adversely affect the mechanical characteristics of the hardened product and alter the colour of the grouting.
- 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 additive may correspond to different colours of the finished grouting.
- 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, micro porous surfaces, making them



- susceptible to staining and extremely 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 grout 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.

- Since the additive is a latex in aqueous dispersion, it is susceptible to frost damage. Transport and store the product at temperatures no lower than +5°C
- Do not keep product contained in the cans in direct sunlight or in very hot areas.

| IDENTIFICATION DATA | |
|----------------------------|---|
| Appearance | Liquid |
| Colour | White |
| Solids content | 10-12 % |
| Viscosity | 10-30 mPas |
| pH | 10 – 12 |
| Classification to EN 13888 | LITOCHROM 1-6 + 33-34% IDROSTUK LITOCHROM 3-15 + 18-20% IDROSTUK Class CG2 Enhanced cementitious grout with high abrasion resistance and low water absorption. |
| Custom code | 3906 9000 |
| Shelf life | 24 months in original packaging. Susceptible to frost damage. |

| PERFORMANCE | |
|---|-------------------------|
| Abrasion resistance (EN 12808-2) | < 1000 mm ³ |
| Mechanical flexural strength after 28 days in standard conditions (EN 12808-3) | > 3,5 N/mm ² |
| Mechanical compressive strength after 28 days in standard conditions (EN 12808-3) | > 15 N/mm ² |
| Mechanical flexural strength after freeze-thaw cycles (EN 12808-3) | > 3,5 N/mm ² |
| Mechanical compressive strength after freeze-thaw cycles (EN 12808-3) | > 15 N/mm ² |
| Shrinkage (EN 12808-4) | < 2 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 |


APPLICATION DATA

| | |
|-------------------------|--|
| Ready for 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 |
| Maturing time | 5 minutes |
| Mix consistency | Creamy |
| 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 |
| Consumption | See grout consumptions on relevant technical sheet. |

PACKAGING

| | |
|------------|------------------------|
| 20 kg cans | Standard pallet 720 kg |
| 10 kg cans | Standard pallet 600 kg |
| 5 kg cans | Standard pallet 600 kg |
| 2 kg cans | Standard pallet 500 kg |

Although the information in this data sheet is the result of our experience, these have a purely indicative value.
 Each individual case must be subjected to preliminary practical testing by the user who assumes responsibility for the final outcome of the work..

Sheet No.501
Revision No. 3
Date: May 2016

INFORMATION ON SAFETY

Consult the product safety sheet available on request

PRODUCT USED FOR PROFESSIONAL USE

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