

cl-stuk



cl-stuk is a latex which, mixed with cement-based grouts such as **colorstuk n**, reduces water absorption and enhances mechanical resistance and deformability. Specially recommended when laying ceramic outdoors and in permanently damp environments.

A latex additive that can be mixed with the colorstuk range of **high-tech grout mortars** in cases when increased mechanical resistance, reduced water absorption or improved flexibility is required.

Recommended use

Specially recommended in:

- Outdoor floor and wall tiles.
- High traffic floor tiles.
- Floor tiles on radiant heating.
- Pools and damp environments.

It enhances grouting material performance in:

- Indoor wall coverings. Specially recommended for rectified tiles.
- Indoor floor tiles, including public buildings.

Materials

Specially recommended in:

- Wall tiles with mosaic-like patterns.
- DQS slabs and other kinds of marble agglomerate

It enhances grouting material performance in:

- Absorbent and non-absorbent ceramic tiles, including porcelain tiles.
- Glass mosaic.
- Natural stone and marble not prone to staining.

Before applying **cl-stuk** on a ceramic wall covering not stated in the previous listing, please perform a test or check with **butech's Technical Department**.

Substrate

All usual substrates for ceramic tiles laying.

Characteristics

- Water-based acrylic resins latex.
- Resistant to the most common chemicals.
- It reduces mortar water absorption.
- It enhances the adherence and deformability of the grouting material.
- It increases resistance to abrasion.
- Excellent resistance to UV rays and the effect of heat.
- Frost-resistant.

Instructions for use

Preparing the joint mortar.

cl-stuk is a ready-to-use liquid additive that is mixed with cement-based grouts right before use, and is mixed until a mortar is formed. The following are the instructions for its preparation:

- Use clean containers and tools.
- Briefly shake cl-stuk before using it.
- Mix cl-stuk with a ratio of:

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|--------------------------|--------|------------------------------|
| • colorstuk 0-4 n white: | 34% | 1.6 - 1.8 liters / 5 kg bag. |
| • colorstuk 0-4 n color: | 26% | 1.2-1.4 liters / 5 kg bag. |
| • colorstuk especial n: | 32.5%; | 0.65 liters / 2 kg bag. |
- First pour the additive into the container, and then add the grouting material slowly
- Mix with an electric mixer at low rpm (500 rpm) until the mass is creamy, uniform, and without lumps.
- Let stand 2-3 minutes.
- Stir with a hand trowel, and apply.

Do not add more **cl-stuk** or water to the mix once the grout has started setting.

Applying the grouting material.

Before starting to seal the installation joints, make sure the adhesive has finished setting and that the moisture on the tile back has been eliminated, especially when it comes to laying mosaics or large format and low absorption tiles with minimal installation joint

We recommend taking the following precautions:

- Check that there are no elements in the installation joints that could interfere with the grouting material. The joints must be clean from bonding material and have a uniform depth throughout their length of at least 3/4 the tile thickness.
- Clean off any dust or dirt remains there might be on the wall covering we are working with.
- In the event of high temperatures, strong air currents, or very absorbent ceramic tiles, wet the joints previously with clean water before applying the grout.
- Protect all elements present in the wall covering that are sensitive to cement mortar attack.
- Do not use metal tools that may scratch the tile surface.

The recommended laying technique is the following:

- Spread the product and press using the hard rubber trowel, until the joints are completely filled; pick the excess with the same trowel, making diagonal movements on the pieces.
- Before cleaning the joints, wait a few minutes until the mortar starts to harden. The wait time may vary depending on the water absorption, room temperature, and aeration.
- Clean off the excess grouting material with a slightly wet fine-finish hard sponge.
- Apply the sponge diagonally to the joint weave, and rinse with clean water as many times as needed. Before using the sponge, rinse as much as possible.
- Go over the joints with a dry cloth, to prevent the presence of moisture from producing hue changes throughout the joint. Always heed the cleaning times.

As general rule, it is not recommended to leave installation joints smaller than 1.5 mm indoors and 5 mm outdoors. There is currently a wide range of spacers and separators that make the work of the ceramic layer easier, but we highly recommend **butech's self-leveling separators** which, in addition to marking the joint width, avoid the appearance of ledges between tiles, and laying defects.

Commissioning.

- Let the mortar set for a minimum of 24 hours before allowing transit on a laid floor. Adverse environmental factors may delay the adhesive setting so if in doubt, let 36 hours pass.
- There are many external factors that can affect the grout color hue: different joint widths, quantity and quality of the mixing and cleaning water, room moisture and temperature, and cleaning system. These factors are out of the supplier's control, and therefore the grout hue cannot be guaranteed.
- Efflorescence (a whitish powder or crust that forms on the surface) can arise with any Portland cement product. Therefore, if a grout that has Portland cement in its composition is used, we cannot guarantee that efflorescences will not form. If that happens, a building site cleaning must be carried out.

Cleaning and maintenance

- Before laying, and in order to avoid later problems, it is recommended to consult the supplier's technical data sheet for the type of wall covering used, and check that it is not sensitive to alkaline products such as cement mortars, or to acid construction cleaners.
- Cement mortars mixed with cl-stuk are harder to work with and clean, so we recommend using extreme care with them.
- Clean up any remaining mortar before it hardens. Be extremely cautious with non-slip floors, absorbent stone, or tiles with relief surface.
- In case of mortar stains, it is recommended to use the construction debris cleaner acid net. We recommend performing a preliminary test.
- Once the laying is carried out, clean the tool with plenty of water before the remains harden.
- Check the supplier's maintenance instructions for the type of wall covering used.

Conservation

24 months in its original container and protected from moisture and the weather. Store in a dry place, covered and protected from direct sunlight.

Safety and hygiene

- No problems have been detected related to the use of cl-stuk, other than those common to the rest of cement-based mortars containing hydraulic binders. These mortars, when in contact with sweat or other body fluids, can produce a slightly irritant alkaline reaction.
- Safety data sheets available to the professional user who requests them.

Additional instructions

- Once the container is opened, do not use after 7 days.
- The only work technique we recommend is applying with a hard rubber trowel. Generally speaking, we do not recommend the use of soft rubber trowels or any kind of metal tool.
- **cl-stuk** is a grouting material for professional use. Follow scrupulously all instructions for preparing and applying the adhesive. Do not dilute with water.
- Using a larger amount of additive when mixing the grouting material does not improve the mechanical performance, and produces changes in the joint color.
- Working times depend on the wind, humidity, and temperature workplace conditions, so the working times specified on this sheet may vary regarding those of the place where the work is being carried out.
- Protect from rain and frost at least during the first 24 h.
- Do not apply when the temperature is below 5 ° C or higher than 35 ° C.
- Use extreme care when laying absorbent non-glazed tiles, marble, and other natural stones.
- Do not apply in installations where special chemical resistance is needed. In these cases, use **epotech**.
- Never apply in movement joints, whether they are structural, perimeter, or partition.
- The layout, width, and construction details of the perimeter and intermediate movement joints, as well as the materials to be used, should be included in the ceramic tile laying design.
- Heed the structural joints present in the substrate.
- Make movement perimeter joints in corners, floor level changes, and height differences in material changes.

- As a general rule, make intermediate movement joints that delimit areas as square as possible, 16-25 m² outdoors, and 50 m² -70 m² indoors. They shall have a minimum width of 8 mm.
- The technical information contained in this technical data sheet has been collected from approved laboratory tests and under the conditions indicated by the corresponding standards.
- For more information about this product, check with **butech's Technical Department**. The only recommended laying technique is laying the tiles on a thin layer with a notched trowel. Do not use mortar blobs applied with trowel tip.

Technical Sheet Conditions

- This is not a finished product technical sheet. It belongs to a laying material which, together with other products and materials, configures a ceramic tile laying system. Instructions in this technical sheet have been written based on our experience and technical expertise, but they have to be only considered as general recommendations which, together with those for the rest of the products in the system, guide the laying professionals in their job.
- As it is not possible to know all the features and conditions of a building job, professionals must consider it and, if deemed appropriate, perform a previous test to confirm whether the product is suitable for the job.
- The technical sheet cannot reflect all the applications and conditions entailed in the use of a material, so, in situations not described in this sheet, we recommend to perform a previous test and refer to our technical department.
- This sheet has been updated in April, 2021.

Technical data

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| Appearance of the latex | Whitish liquid |
| Hazard | None (see material safety data sheet) |
| Flammability | No |
| Storage time | 24 months in a dry place |
| Specific weight | ~1,01 g/cm ³ |
| pH | 7 - 8.5 |
| Solubility | Soluble in polar solvents |
| Application temperature | 5 ° C to 35 ° C |

References

| SAP | Product description | Packaging | Palletizing |
|------------|----------------------------|------------------|--------------------|
| 100004374 | cl-stuk | 2 kg can | 448 kg/pallet |
| 100004375 | cl-stuk | 5 kg can | 480 kg/pallet |