

CE 46

UltraDur

Highly flexible joint filler for joints of 2–12 mm width with high resistance to acid and alkaline cleaners



PROPERTIES

- ▶ high resistance to acid and alkaline cleaners
- ▶ highly wear-resistant
- ▶ high mechanical resistance
- ▶ easy to apply
- ▶ brilliant grout colours

Test Certificate No. 220005684-07,
MPA, NRW/Germany

SCOPE OF USE

For grouting wall and floor coverings made of ceramics, glass mosaic and natural stones not sensitive to discoloration, especially in domestic and commercially used areas that are subject to normal and high exposure to cleaning agents.

Used for grouting work e.g. in workshops, swimming baths, carwashes, storage and shop floor areas. Also suitable for heated screeds. For indoor and outdoor use.

SUBSTRATE PREPARATION

The substrate and the thin-bed mortar, dispersion adhesive or thick-bed mortar (at least 7 days old) must have set sufficiently hard and be dry.

When using tiles with a porous or non-scratchproof surface, make sure to carry out a trial grouting.

APPLICATION

Stir CE 46 into cold, clean water until it is completely free of lumps. Use a suitable tool, e.g. a helical mixer attached to an electric drill. Stir at a speed of approx. 600 rpm until a uniform, homogeneous colour is achieved. Stir again after a maturing time of 3 minutes. Apply the joint filler with a grouting board (fine/



cellular rubber) using the slurry technique. After start of setting, use little water to wipe over and clean the freshly grouted covering with a damp sponge/sponge board. Only clean the joint with clean, clear water without using any additive. Later use a clean, dry cloth to remove any dry residual film on the tiles.

The tile covering is ready for foot traffic after 12 hours at the earliest.

PLEASE NOTE

Use CE 46 only in dry conditions at temperatures of at least +5 °C and at most +25 °C. Differences in the absorbency of ceramic tiles and slabs, e.g. un-/glazed joint flanks and/or inhomogeneous substrates (due to a different moisture content), may result in colour variations of the hardened joint filler.

Any remaining film on unglazed, highly absorbent covering materials can be removed with CL 55 if

necessary. Observe the recommendations given by the respective manufacturer.

When using different bags/sacks of CE 46 joint filler, slight colour variations cannot be excluded. Therefore make sure to use bags/sacks with the same control number within one building object.

Use CE 47/CE 48 Epoxy-Grout for joints in areas subject to high chemical and mechanical stress, e.g. chemical industrial plants, chemical laboratories.

CE 46 contains cement and reacts with water producing an alkaline solution. Therefore protect eyes and skin. If contact occurs, rinse thoroughly with plenty of water. In case of contact with the eyes, seek medical advice immediately.

Observe the warnings-, safety- and waste advice given in the safety data sheet.

Should you need support or advice, please consult our advisory service for architects and craftsmen on the hotline numbers

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TECHNICAL DATA

Base: Cement combination with special mineral superfine fillers, highly active hydrophobing agents and synthetic resin powder (chromate-reduced).
GISCODE ZP 1

Bulk weight: approx. 1.4 kg/dm³

Mixing ratio: approx. 0.19 l / 1 kg
approx. 1.0 l / 5 kg
approx. 3.8 l / 20 kg

Application temperature: +5 °C to +25 °C

Foot traffic: after approx. 12 hours

Mechanical resistance: after approx. 7 days

Chemical resistance: after approx. 14 days

Temperature resistance: -20 °C to +70 °C

Dyn. modulus of elasticity: approx. 15 500 N/mm²

Amounts required:

Type of covering	Size (cm)	Joint width (mm)	Amount kg/m ² appr.
Small mosaic	5/5	1.5-2	ca. 0.50
Medium mosaic	5/5	3	ca. 0.67
Tiles	10/10	2	ca. 0.35
Tiles	15/15	3	ca. 0.38
Tiles	20/20	5	ca. 0.30
Tiles	30/30	5	ca. 0.25

Available colours: grey, white, silver grey, manhattan, pergamon

Storage: approx. 12 months if stored tightly closed in a cool, dry and well-ventilated place. Use up opened bags / sacks as soon as possible

RESISTANCE TABLE

Acids	Concentration	Resistance
Hydrochloric acid	2%	–
Phosphoric acid	2%	++
Citric acid	2%	+
Lactic acid	2%	+
Acetic acid	2%	++
Sulphuric acid	2%	++
Formic acid	2%	+
Alkalis		
Potash lye	5%	++
Potash lye	25%	++
Potash lye	50%	++
Caustic soda	5%	++
Caustic soda	25%	++
Caustic soda	50%	++
Ammonia	5%	++
Ammonia	10%	++
Ammonia	conc.	++
Soda	20%	++
Sodium hypochloride	5%	++
Sodium hypochloride	10%	++
Solvents		
i-propanol	pure	++
Ethanol	pure	++
Ethanol/water	20%	++
Acetone	pure	++
Ethylene glycol		++
Propylene glycol	pure	++
White spirit	pure	++
Oils		
Paraffin oil	pure	++
Mineral oil	pure	++
Heating oil	pure	++
Spindle oil	pure	++
Edible oils	pure	++
Household cleaners		
acid cleaners	pure	+
Biff	pure	++
alkaline cleaners	pure	++

ADDITIONAL INFORMATION

The technical data given in the Resistance Table is based on the results of lab tests which are more or less applicable to real conditions. The tests were carried out in analogy to EN 12808-1 in a standing medium over a period of 4 weeks. With moving chemicals (liquids) and temperatures above +20°C, a lower level of resistance is to be expected.

If the resistance to a test medium is indicated as limited, this means that the product is resistant to occasional, short-term exposure to the respective medium (e.g. exposure during cleaning process). When occasional contact with the chemical occurs, long-term reliable bonding or grouting can only be guaranteed if the affected surface is immediately resp. regularly cleaned by water and dried. However, discolorations may occur and remain permanent.

Key to resistance symbols:

– = not resistant

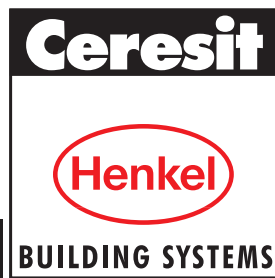
+ = the specimen is not damaged by short-term exposure

++ = resistant; even in the case of 4-week continued exposure the specimen is not damaged

Apart from the information given here it is also important to observe the relevant guidelines and regulations of various organisations and trade associations as well as the respective standards of the German Standards Institute (DIN). The aforementioned characteristics are based on practical experience and applied testing. Warranted properties and possible uses which go beyond those warranted in this information sheet require our written confirmation. All data given was obtained at an ambient and material temperature of +23 °C and 50 % relative air humidity unless specified otherwise. Please note that under other climatic conditions hardening can be accelerated or delayed.

The information contained herein, particularly recommendations for the handling and use of our products, is based on our professional experience. As materials and conditions may vary with each intended application, and thus are beyond our sphere of influence, we strongly recommend that in each case sufficient tests are conducted to check the suitability of our products for their intended use. Legal liability cannot be accepted on the basis of the contents of this data sheet or any verbal advice given, unless there is a case of wilful misconduct or gross negligence on our part. This technical data sheet supersedes all previous editions relevant to this product.

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