

CE 47

Epoxy joint filler for chemical resistant grouting



CHARACTERISTICS

- ▶ Easy application
- ▶ Suitable for wet areas
- ▶ Chemical-resistant
- ▶ Solvent-free
- ▶ Antimicrobial, antibacterial and antifungal



SCOPE OF USE

For permanent, chemical-resistant grouting of ceramic tile coverings, acid-resisting clinker, split tiles and clinker floor tiles.

For grouting areas exposed to aggressive substances, e.g. in medicinal baths, dairies, commercial kitchens, battery stores, car washes, breweries, silos, stables, swimming pools, laboratories. Suitable for use indoors, outdoors, in permanently wet and in drinking water areas. For filling joints of 8 to 12 mm width mix CE 47 with approx. 15 % fire-dried quartz sand of grain size 0.2 to 0.6 mm (e.g. F 36 or H 33). Please contact the technical center for the details of the resistance to special chemicals.

APPLICABLE STANDARDS

Tested according to ANSI A118.3

SUBSTRATE PREPARATION

CE 47 adheres to all solid, load-bearing, clean and dry surfaces free of substances which can cause separation. The surface, thin-bed mortar or bedding mortar must have set sufficiently hard, and joints must have been uniformly scraped.

APPLICATION

CE 47 is supplied in two components in either a single container or two separate containers. Add hardener (component B) to the base solution (component A) and mix with an electric drill and mixer attachment at approx. 400-800 rpm until completely free of lumps. It is absolutely necessary to lift off the complete tin lid, using e.g. a screwdriver or trowel, and to scrape the hardener



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(component B) with a spreader or trowel completely out of the upper into the lower container (component A = resin) where the 2 components are mixed until a homogeneous mixture is obtained. When using only partial amounts, it is necessary to remove them by scraping from the two containers. Afterwards they can be closed again. Ensure a uniform, homogeneous colour of the mixture.

Screeding technique

Apply the CE 47 mixture with an epoxy grouting board to the dry and clean ceramic coverings, filling the joints completely and without any cavities. Then remove any excess material by skimming it diagonally off the tile surface.

Cleaning

Emulsify any excess CE 47 on the tile surface by making circular movements with a coarse sponge pad and very little water. Wipe off the resulting slurry with a soft sponge (hydro sponge). Then wipe again using a clean, soft sponge and very little water. Frequently rinse the sponge in clean water. Do not begin cleaning the surface before CE 47 has started to set. For final cleaning wait at least 3 but no more than 6 hours to remove the remaining film from the tile surface with a soft sponge. Cleaning is facilitated if approx. 10 % spirit is added to the cleaning water. Warm

water also facilitates cleaning.

PLEASE NOTE

Use CE 47 only at surface and air temperatures of 10°C to 40°C. CE 47 contains epoxide compounds. CE 47 in white may discolour (yellow) if exposed to heavy UV Light.

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. 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 at laboratory conditions 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.

Should you need support or advice, please consult our technical service.

TECHNICAL DATA

Base	epoxy resin with mineral fillers and additives.		
Fresh mortar density	approx. 1.6 kg/dm ³		
Mixing ratio	A : B = 3 : 1 parts by weight		
Application temperature	10°C to 40°C		
Application time	approx. 90 minutes		
Open time	approx. 90 minutes		
Load-bearing strength	after 24 hours		
Chemical resistance	after 7 days acc. to resistance table 1.40		
Temperature resistance	-30°C to 100°C (dry heat)		
Bond strength [ANSI 118.3]	>1000 Psi [14days]		
Initial setting time [ANSI 118.3]	4hours		
Linear shrinkage [ANSI 118.3]	<0.15%		
Tensile adhesion strength	>15 N/mm ² [7days]		
Tile size in cm	Tile thickness mm	Joint width mm	Amount kg/m ²
5 / 5	5	4	approx. 1.3
10 / 10	8	4	approx. 1.0
15 / 15	6	6	approx. 0.8
10 / 20	6	6	approx. 0.9
10 / 20	10	8	approx. 1.9
20 / 20	10	8	approx. 1.3
Available colours	grey and white		
Shelf life	Approx. 12 months if stored in a tightly sealed container, in frost-free, cool and dry conditions at a temperature above 10°C. Use product in opened containers as soon as possible.		
Packaging size	5kg kit		

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