

CU 22

Epoxy adhesive

Epoxy resin adhesive for powerful and chemical-resistant bonding of ceramic covering

CHARACTERISTICS

- ▶ Suitable for wet area application
- ▶ Chemical-resistant
- ▶ Very high bonding strength
- ▶ Rapid load-bearing strength
- ▶ Solvent-free



SCOPE OF USE

For fixing ceramic tiles, marble, natural stone tiles, clinker, wood chipboards, porcelain, glass mosaic etc.
For fixing elements, prefabricated parts and profiles.
Suitable for indoor and outdoor use. Especially for areas exposed to chemicals and permanently wet areas, e.g. car washes, medicinal baths, commercial kitchens, breweries, silos, animal houses, dairies, swimming pools and laboratories. For permanent bonding on metal (bright metal or with EP anticorrosive coating), concrete, cement render-ings and cement screeds (at least 28 days old), fibrous cement boards, wood chipboards (V 100, thickness ≥ 22 mm), existing tile and artificial stone floors, and on heated screeds.
Suitable for drinking water areas. CU 22 is also suited for permanent, chemical-resistant grouting.

SUBSTRATE PREPARATION

CU 22 adheres to all solid, load-bearing, clean and dry surfaces free of substances which can cause separation. Coatings, dirt deposits and separating agents must be completely removed. Screed over uneven areas and fill holes 12 hours before applying the adhesive. CU 22 can be mixed with up to 15 % fire-dried quartz sand (grain size: 0.2-0.6 mm).

APPLICATION

CU 22 is supplied in two components in either a single container or two separate containers. Add one part by weight of hardener (component B) to 3 parts by weight of base solution (component A) and mix with an electric drill at approx. 400–800 rpm until completely free of lumps. Make sure the colour is uniform with no streaks. Pot life and



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open time are strongly dependent on temperature. CU 22 is applied using the thin-bed method. In the case of heavy-duty ceramic coverings, e.g. in medicinal baths, swimming pools or battery stores, seal the surface with CE 49 Epoxi FlexSeal which provides watertightness. For obtaining watertight corners and edges use CL 52, CL 252, CL 56 and CL 57. These products are embedded into the middle of the sealing coat at all corners and near settlement joints. Fresh excess adhesive can be removed with warm water and a brush within pot life; once hardened only mechanical removal is possible. Joints can be grouted after only 24 hours. When laying ceramic slabs with a strongly raised back, CU 22 can be mixed with up to 15 % firedried quartz sand (grain size 0.2-0.6 mm, e. g. F 36 or H 33). When using CU 22 for grouting it is necessary to follow the directions for use in the Technical Data Sheets of CE 47. Use CU 22 only at surface and air temperatures of $+10^{\circ}\text{C}$ to $+40^{\circ}\text{C}$.

PLEASE NOTE

CU 22 contains epoxide compounds. For further details refer to information sheets M 004, M 017, M 023 and M 042 issued by the BG-Chemie (Employers' Liability Insurance Association of the Chemical Industry). Observe the warnings-, safety- and waste advice given in the safety data sheet.

TECHNICAL DATA

Base	Epoxy resin with mineral fillers and additives. According to DIN EN 12004 R2 T.	
Fresh mortar density	Approx. 1.6 kg/dm ³	
Mixing ratio	3 parts by weight component A to 1 part by weight component B	
Application time	Approx. 90 minutes	
Open time	Approx. 90 minutes	
Slip	≤ 0.3 mm	
Load-bearing, ready for grouting	After 24 hours	
Chemical resistance	After 7 days	
Temperature resistance	-30 °C to +100 °C (dry heat)	
after full curing	-30 °C to + 70 °C (damp head)	
Tensile adhesion strength	≥ 2.2 N/mm ² under all storage conditions	
Amount required	notch trowel size	Amount
	in mm	in kg/m ²
	3 mm	1.9
	4 mm	2.2
	6 mm	2.8
	8 mm	3.4
Colour	grey and white	
Shelf life	Approx. 12 months if stored in a tightly sealed container, in cool and dry conditions. Use product in opened containers as soon as possible.	
Packaging	5 kg in 2 separate containers	

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.