

## CE 79 UltraPox Color

2-component, chemical-resistant, coloured epoxy grout and adhesive

## CE 80 UltraPox Mix

Colour paste for creating decorative effects

### CHARACTERISTICS

- ▶ Easy application
- ▶ Waterproof
- ▶ Resistant to chemicals
- ▶ Grout width 2–6 mm
- ▶ Drinking water approved
- ▶ Can be coloured with CE 80 UltraPox Mix



balconies & patios



easy workability



chemical resistant



humid areas



abrasion resistant



trendy colour choice

### SCOPE OF USE

For fixing and grouting translucent and transparent coverings such as glass mosaic tiles and natural stones. For producing decorative, coloured joints.

For the permanent and chemically resistant fixing and grouting of ceramic tiles and stones, acid-resistant bricks, split tiles, chipboards, porcelain, clinker slabs and synthetic resin bonded slabs (Agglo marble etc).

For fixing and grouting ceramic coverings in areas exposed to aggressive substances, e.g. in therapeutic baths, dairies, industrial kitchens, battery rooms, car washes, breweries, silos, animal housing, swimming pools, laboratories, spas, saunas and steam baths. For indoor and outdoor use, in permanently wet and drinking water areas.

### SUBSTRATE PREPARATION

CE 79 adheres to all sound, load-bearing, clean and dry substrates free of substances that may impair adhesion. Prior to grouting, the surface, thin-bed mortar or bedding mortar must have set sufficiently hard and all joints must be uniformly raked to the same depth and width. To ensure a permanent bond with metal, the substrates must be bright metal or coated with an epoxy corrosion inhibitor.



### APPLICATION

CE 79 consists of two components supplied in one container (on request with the additional colour component CE 80 UltraPox Mix). Add the hardener (component B) to the resin (component A) and mix with a low-speed electric drill and stirrer (approx. 400 rpm) until the mixture is completely homogeneous and free of lumps. Mixing ratio A/B is 10:1. It is absolutely essential to pour the complete amount of component B (bottle inside the bucket) into component A. For creating decorative colour effects on the tile installation surface and the joints, add component C (CE 80 UltraPox Mix) after thoroughly mixing components A and B, then mix again until the compound is homogeneous and streak-free with a uniform colour. Make sure to always mix the full contents of each component pack. Do not remove partial quantities due to the risk of proportioning errors.

#### Grouting the joints (trowel method):

Work the mixed CE 79 compound with an epoxy grout float into the clean, dry joints. Make sure the joints are completely filled without any voids. Afterwards remove any excess material by skimming it diagonally off the tile surface with the grout float.

#### Grouting the joints (injection method):

Produce a homogeneous mixture of components A + B + C, pour it into another suitable vessel (e.g. by the company Beyer & Otto GmbH, Kleinostheim/Germany) and fill it through a single-hole

pressure disk into the cartridge. Screw on a nozzle that matches the joint width and inject the epoxy grout void- and bubble-free into the joints. Skim off any excess material with the epoxy grout float.

#### Fixing tiles and stones:

CE 79 is applied using the thin-bed method. The notch size of the trowel must be adapted to the respective tile or stone format in accordance with DIN 18157.

The working time, which is identical with the correction time, is approx. 90 minutes at room and container temperatures of +18 °C. When installing ceramic coverings subject to heavy-duty conditions, e.g. in therapeutic baths, swimming pools or battery rooms, waterproof the whole surface area with CE 49 Epoxy FlexSeal. This protects the surface against the penetration of water and the effects of acids and alkalis. Use the accessory products CL82, CL83, CL84, CL86, CL87 (sealing tapes and collars) for producing waterproof corners and edges. Embed these products into the middle of the waterproofing coat in the area of corners and movement joints.

#### Cleaning:

Use a fine hydro grout sponge (not a coarse Scotch-Brite® pad) and a little water to remove any remaining material from the tile surface. Work with circular movements to emulsify the material and then remove the resulting slurry. After that, wipe the remains off with a clean, fine hydro sponge and very little water. Carefully rinse the sponge frequently in clear water. Before cleaning, wait until the epoxy grout has started to set. Before final cleaning, wait at least 3 hours but no more than 6 hours. Use a fine hydro sponge to remove the remaining film off the tile surface. Cleaning is facilitated by adding CE 51 Epoclean to the cleaning water (detergent additive for removing epoxy films). Mixing ratio: 100 ml CE 51 for 8 litres of warm water. For removing hardened resin films refer to the instructions given in the Technical Data Sheet of CE 51. Remove fresh grout and adhesive residues within the pot life using warm water, CE 51 Epoclean and a brush. Fully hardened material can only be removed mechanically. After grouting, the newly tiled surface is ready for foot traffic after only 24 hours. CE 79 reaches its final chemical and mechanical resistance after only 7 days.

### PLEASE NOTE

Use CE 79 only at substrate and air temperatures of +10 °C to +25°C. CE 79 contains epoxy compounds. Please make sure to observe the hazard warnings and safety information on the container and in the Safety Data Sheet. For further information refer to the information sheets M 004, M 017, M 023, M 042 of the "Berufsgenossenschaft der Chemischen Industrie (BG-Chemie)" (Employers' Liability Insurance Association of the Chemical Industry). Please refer in particular to DIN 18352, DIN 18157, the information sheets issued by the "Zentralverband des Deutschen Baugewerbes e. V." (Central Association of the German Building Trade) and AGI worksheet S 10.

**Should you need support or advice, please consult our advisory service for architects and craftsmen.**  
**Phone: +49 (0) 211/797 106-07/-55/-59**  
**Fax: 0211-798-1204**

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

Apart from the information given in this technical data sheet, it is also important to observe the relevant guidelines and regulations of various organizations and trade associations as well as the applicable DIN standards.

All data given was obtained at an ambient and material temperature of +23°C and 50 % relative humidity unless specified otherwise. Please note that under other climatic conditions hardening can be accelerated or delayed.

 **Henkel AG & Co. KGaA – Bautechnik**  
 Henkelstraße 67 · D-40589 Düsseldorf  
 Telefon +49 211 797 0 • Telefax +49 211 798 2148  
 Internet: www.ceresit.com · E-Mail: ceresit.bautechnik@henkel.com

### TECHNICAL DATA

Chemical basis:	epoxy resin with mineral fillers and additives; tested according to DIN 18156-E GISCODE RE 1		
Fresh mortar density:	1.6 kg/m <sup>3</sup>		
Mixing ratio:	10 parts by weight of component A to 1 part by weight of component B; quantity of component C varies depending on the colour shade		
Pot life:	approx. 90 minutes		
Working temperature:	+10 °C to +25 °C		
Open time:	approx. 90 minutes		
Skin formation to DIN EN 1346:	> 2 N/mm <sup>2</sup>		
Load-bearing strength:	after 24 hours		
Chemical resistance:	after 7 days acc. to resistance Table 1.40 (reichen wir nach)		
Temperature resistance:	-30 °C to +100 °C (dry heat)		
Adhesive tensile strength:	≥ 2.2 N/mm <sup>2</sup> under all storage conditions		
Shear strength acc. to DIN EN 12003:	> 2 N/mm <sup>2</sup> under all storage conditions		
Consumption when used as tile adhesive:	Consumption in kg/m <sup>2</sup>		
Notch size in mm			
3 mm	1.9		
4 mm	2.2		
6 mm	2.8		
Consumption per mm layer thickness:	1.1 kg/m <sup>2</sup> /mm (approximate value)		
Consumption (grouting):	approx. 1.6 kg/l joint (approximate value)		
Calculation of the amount required as grout mortar:	Number of joints x joint depth x joint width x 1.6 kg/m <sup>2</sup>		
Tile format cm	Tile thickness mm	Tile width mm	Consumption kg/m <sup>2</sup>
5/5	5	4	1.3
10/10	8	4	1.0
15/15	6	6	0.8
10/20	6	6	0.9
10/20	10	8	1.9
20/20	10	8	1.3
Colour (base compound):	off-white + desired amount of colour paste CE 80. Other colours can be achieved by mixing with CE 80 UltraPox Mix.		
Packaging size:	5 kg		
Shelf life:	approx. 12 months if stored in the unopened original container in a frost-free and dry place at a temperature above +10 °C. Use up opened containers as soon as possible.		

	
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Henkel AG & Co. KGaA Henkelstr. 67, D-40589 Düsseldorf	
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<b>00130</b>	
<b>EN 12004:2007+A1:2012 R2T</b>	
<b>Improved reaction resin adhesive with reduced slip</b>	
Reaction to fire	<b>E</b>
Release of dangerous substances	<b>see MSDS</b>
Bond strength, as:	
initial shear adhesion strength	≥ <b>2.0 N/mm<sup>2</sup></b>
shear adhesion strength after water immersion	≥ <b>2.0 N/mm<sup>2</sup></b>
shear adhesion strength after thermal shock	≥ <b>2.0 N/mm<sup>2</sup></b>
Durability, for:	
Open time: Tensile adhesive strength after not less than 20 min	≥ <b>0.5 N/mm<sup>2</sup></b>
Slip	≤ <b>0.5 mm</b>