

Technical Data Sheet



AB-POX® 422

2-C-EP-joint and adhesive mortar

Description:

2-component epoxy joint mortar, pigmented, specially filled
VOC < 500 g/l, free of nonylphenol

Characteristics:

- easy to apply
- crack-free curing
- shrinkage-free setting
- easy to wipe off / can be emulsified
- approved in acc. with DIN EN 12004
- joint width 2 to 15 mm
- very good chemical resistance
- high mechanical strength
- good flank adhesion
- inert and harmless once cured

Application:

AB-POX 422 is used as a chemical resistant and water impermeable joint mortar for the laying and grouting of floor coverings made of ceramic tiles, mosaics and clinker bricks on cement plasters, cement screeds and concrete. Suitable for ceramic coverings in breweries, dairies, cheese dairies, slaughterhouses, butchers, canteen kitchens, hotels, schools, toilets, lemonade and fruit juice industries etc.

Suitable as joint mortar for joint widths of 2 - 15 mm indoors and outdoors (yellowing possible).

N/B: (Please consult us!)

For gluing on wall areas (vertical surfaces), a special thixotropic agent must be added to the mixture in order to achieve increased stability.

Consumption:

approx. 1.65 kg/m² per 1 mm, depending on application / joint width

Resistant to:

- water / waste water / seawater
- fat and oil
- temperature dry max. 80°C
- saline solutions
- many acids and alkalis
- lubricants and fuels
- wet temperature short-term max. 60°C

Technical Data:

Mixing ratio A : B	100 : 7 by weight
Density (23°C)	approx. 1.65 g/cm ³
Volume solids	approx. 100 %
Viscosity (23°C)	pasty

Details for application:

Processing time*	approx. 45 - 60 minutes
Adhesive open time*	approx. 60 minutes
Emulsifiability / washable*	approx. 60 - 90 minutes
Substrate temperature	minimum 12°C up to maximum 30°C
Material temperature	15°C - 25°C
Maximum relative humidity of air	at 12°C: 75 % (dew point +3°C) at > 23°C: 85 % (dew point +3°C)
Curing times*	
laid tiles coverings / wall coverings can be grouted	after approx. 4 hours
installed floor coverings can be walked on / grouted	after approx. 16 hours
grouted floor coverings can be walked on	after approx. 16 hours
chemical resistant to water and chemicals	after 7 days

All above values are approximate and may be used as a guideline for specifications

*at +23° C and 50 % relative humidity. High temperatures will speed up and low temperatures will slow down the reaction.

Packaging:

6.5 kg - pails

Colour:

light grey, dark grey, anthracite (other colours are available on request)
- due to raw material variations and manufacturing techniques, a slight colour / batch difference may occur -

Storage:

12 months, unopened in original drums under dry conditions and a temperature of 15 - 25°C.
At temperatures < 10°C crystallisation is possible. Please consult us.

1. Surface preparation

Prior to the application, the substrate must be tested for bearing capacity and suitability for the load to be applied. The substrate to be grouted must be in a sound condition and of a good quality in general. The surface must be clean, dry and free of oil, fat and other contaminants.

Minimum requirements:

- free of cement laitance, dust, oil, fat and other contaminants
- the substrate must be protected against the effects of rising damp and moisture mitigation!

See also "general preparation and application instructions" sheet.

2. Application

Prior to mixing, the temperature of the components must be between 15 - 25°C. Mix the components in the correct ratio using a suitable low speed electric mixer (300 - 400 rpm) for at least 3 minutes or until a completely homogeneous mixture has been achieved. Put the mixed material into a clean container and mix again for at least 1 minute more. Distribute the mixture immediately onto the surface. Prior to, during and after the application the temperature of the substrate must be at least +3°C above the current dew point temperature.

a.) Bonding of ceramic tiles:

Apply coarsely with a smoothing trowel and comb evenly with a toothed trowel. Then fix the tiles by pushing them in and pressing them in. The tiles are laid in accordance with DIN 18 157, Part 3. Toothing of the toothed trowel: Depending on the type of tile and the profile on the back, between 3 and 8 mm. Bonding must be carried out without cavities. Only comb in as much material as can be covered with ceramic tiles within the open bonding time.

Consumption:

approx. 1.7 kg/m² with 4 mm teeth
approx. 2.8 kg/m² with 6 mm teeth
approx. 3.9 kg/m² with 8 mm teeth

b.) Jointing of ceramic tiles:

Prior to the jointing, the substrate must be checked with regard to its load-bearing capacity and suitability for the load. The ceramic tiling must be executed properly and professionally. The surface must be clean, dry and free of dirt and other contaminants which may impair the adhesion. Apply the freshly mixed **AB-POX 422** evenly with an epoxy jointing board to the surface to be grouted, then slurring and remove diagonally.

3.) Wash / clean the jointed tiles:

After approx. 10 - 45 minutes, emulsify with as little lukewarm water as possible (no hot water!) and a suitable hard sponge or 3M-pad-white by rubbing in circles.

a.) Then absorb the excess with a soft, dimensionally stable viscose sponge; rinse the sponge frequently!

b.) The final washing or modelling time depends on the ambient temperature. At normal room temperature (approx. 20° C), the covering can be washed off with a soft, dimensionally stable viscose sponge (e.g. epoxy sponge, fine) up to 90 minutes after mixing. Please rinse the sponge frequently! Low temperatures allow a longer waiting time. For easier cleaning of the remaining resin residues ("finish"), approx. 10 % spirit can be added to the fresh, cold, clear washing water. The washing water must be changed at regular intervals, approx. every 5 - 10 m². It is recommended to check the surfaces for cleanliness on the same day after drying and to clean them again if necessary.

Important!:

To ensure perfect curing, no standing water or moisture may remain on the surface during drying.

c.) After the grout has hardened, any remaining residues can be removed the next day with a surfactant solution (e.g. "Spüli"). Heavy soiling should be removed with special epoxy cleaners.

N/B:

UV radiation cause discolouration. The technical properties are not affected by this.

4. Chemical resistance

Depending on the requirements we recommend to test the chemical resistance.

5. Packaging

6.5 kg - sets
6.07 kg component A
0.43 kg component B

6. Health and safety

GISCODE: RE30

Avoid inhalation of the vapours and contact with skin. Wear suitable protective clothing, gloves and eye / face protection. Adequate ventilation of the working area is recommended. After contact with skin, wash immediately with plenty of water and soap. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. When using do not eat, drink, smoke and keep away from sources of ignition. For additional references to safety-hazard warnings, regulations regarding the transport and waste management please refer to the relevant Safety Data Sheet.

7. EU Directive ("Decopaint-RL"):

Acc. to the EU Directive 2004/42/EG the maximum allowed content of VOC (Product category All / j / type SB) is 500 g/l (Limit 2010) for the ready to use product. This product is in accordance with the EU Directive 2010.

AB-POX 422; 2.02/02.09.19. Before use, please check that this is the actual edition of the Technical Data Sheet. The information contained in this Technical Data Sheet is of a general nature and is provided in good faith and we accept no liability for errors or omissions. Because use and application of this product are out of our control and depend, concerning substrate, load and method of application, on the particularities of the individual case, our advice, verbal, written or based on tests, does not exempt the applicator from testing the suitability of the products for the intended use.

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