



Epoxy Based Joint Filling Mortar for chemicals resistant

ADVANTAGES

- Easy application
- Suitable for wet areas
- Chemical-resistant
- Solvent-free

USES

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 medical 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.

SUBSTRATE PREPARATION

DURAJOINT EP 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.

APPLICATIONS

DURAJOINT EP 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 (component B) with a spreader or trowel (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 DURAJOINT EP 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 DURAJOINT EP 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 DURAJOINT EP 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.

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
Temperature resistance	-30°C to 100°C (dry heat)
Tensile adhesion	≥ 2.2 N/mm ² under all strength: storage conditions
Available colours	grey and white

Tile size	Tile thickness(mm)	Joint width(mm)	Amount in(kg/m ²) cm
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

PACKAGING

5 Kg Set

SHELF LIFE

24 months.

STORAGE

Store in dry conditions and at room temperatures, in original containers.

Chemical Product	Epoxy Resistance to Chemical Product
Acetic Acid (20%)	Excellent
Acetone	Not Recommended
Acetylene	Excellent
Alcohol - Ethyl	Excellent (temperature < 120°F, 50°C)
Alcohol - Isopropyl	Excellent
Alcohol - Methyl	Good (temperature < 72°F, 22°C)
Aluminum Chloride	Excellent (temperature < 72°F, 22°C)
Aluminum Fluoride	Good (temperature < 72°F, 22°C)
Aluminum Hydroxide	Good (temperature < 72°F, 22°C)
Aluminum Sulfate	Excellent (temperature < 72°F, 22°C)
Amines	Excellent (temperature < 72°F, 22°C)
Ammonia - Liquid	Excellent (temperature < 72°F, 22°C)
Ammonia 10%	Excellent (temperature < 72°F, 22°C)
Ammonium Carbonate	Excellent (temperature < 72°F, 22°C)
Ammonium Chloride	Excellent (temperature < 72°F, 22°C)
Ammonium Hydroxide	Excellent (temperature < 72°F, 22°C)
Ammonium Nitrate	Excellent (temperature < 72°F, 22°C)
Ammonium Phosphate	Excellent (temperature < 72°F, 22°C)
Ammonium Sulfate	Excellent (temperature < 72°F, 22°C)
Amyl acetate	Excellent (temperature < 72°F, 22°C)
Aniline	Fair (temperature < 72°F, 22°C)
Barium Carbonate	Excellent (temperature < 72°F, 22°C)
Barium Chloride	Excellent (temperature < 72°F, 22°C)



Barium Hydroxide	Excellent (temperature < 72°F, 22°C)
Barium Sulfate	Fair (temperature < 72°F, 22°C)
Barium Sulfide	Good (temperature < 72°F, 22°C)
Beer	Excellent (temperature < 72°F, 22°C)
Benzol	Excellent (temperature < 72°F, 22°C)
Borax	Excellent (temperature < 72°F, 22°C)
Boric acid	Excellent (temperature < 72°F, 22°C)
Bromine	Not Recommended
Butadiene gas	Excellent (temperature < 72°F, 22°C)
Butane gas	Excellent (temperature < 72°F, 22°C)
Butyl acetate	Good (temperature < 72°F, 22°C)
Butaric Acid	Fair (temperature < 72°F, 22°C)
Calcium Bisulfite	Excellent (temperature < 72°F, 22°C)
Calcium Carbonate	Excellent (temperature < 72°F, 22°C)
Calcium Chloride	Excellent (temperature < 72°F, 22°C)
Calcium Hydroxide	Excellent (temperature < 72°F, 22°C)
Calcium Hypochlorite	Excellent (temperature < 72°F, 22°C)
Calcium Sulfate	Excellent (temperature < 72°F, 22°C)
Carbon dioxide gas	Excellent (temperature < 72°F, 22°C)
Carbon Tetrachloride	Excellent (temperature < 72°F, 22°C)
Carbonic Acid	Good (temperature < 72°F, 22°C)
Citric Acid	Excellent (temperature < 72°F, 22°C)
Copper Chloride	Excellent
Copper Nitrate	Excellent (temperature < 72°F, 22°C)
Dichloroethane	Good (temperature < 120°F, 50°C)
Diesel Fuel	Excellent (temperature < 72°F, 22°C)
Ethyl acetate	Fair (temperature < 72°F, 22°C)
Ethyl chloride	Excellent (temperature < 72°F, 22°C)
Ethylene glycol	Fair (temperature < 72°F, 22°C)
Fatty Acids	Excellent (temperature < 72°F, 22°C)
Ferric Chloride	Excellent (temperature < 72°F, 22°C)
Ferric Sulfate	Excellent (temperature < 72°F, 22°C)
Ferrous Chloride	Excellent (temperature < 72°F, 22°C)
Ferrous Sulfate	Excellent (temperature < 72°F, 22°C)
Fluorine gas	Note Recommended
Fluosilicic acid	Fair
Formaldehyde, 40%	Excellent (temperature < 72°F, 22°C)
Formic Acid	Fair (temperature < 72°F, 22°C)
R-12 dichlorodifluoromethane	Excellent
Gasoline	Excellent
Glucose	Good
Glycerine	Excellent
Heptane	Excellent
Hexane	Good
Hydraulic Fluid	Excellent
Hydrobromic Acid, 100%	Not Recommended
Hydrochloric acid, 20%	Good (temperature < 72°F, 22°C)
Hydrocyanic Acid	Excellent
Hydrofluoric Acid, 75%	Good (temperature < 72°F, 22°C)
Hydrogen Peroxide, 10%	Fair (temperature < 72°F, 22°C)
Hydrogen Sulfide	Excellent
Jet Fuel	Excellent



Kerosene	Excellent
Lactic Acid	Good (temperature < 72°F, 22°C)
Lead acetate	Excellent
Magnesium Carbonate	Excellent
Magnesium Chloride	Excellent
Magnesium Hydroxide	Excellent
Magnesium Nitrate	Excellent
Magnesium Sulfate	Excellent
Maleic Acid	Excellent
Mercury	Excellent
Methyl Ethyl Ketone	Fair (temperature < 72°F, 22°C)
Naphtha	Excellent
Naphthalene	Excellent
Nickel Chloride	Excellent
Nickel Sulfate	Excellent
Nitric Acid	Not Recommended
Oil - Castor	Excellent
Oleic acid	Excellent
Oxalic Acid	Excellent
Phenol	Good
Phosphoric Acid	Excellent
Picric Acid	Excellent
Potassium Bicarbonate	Excellent
Potassium Bromide	Excellent
Potassium Carbonate	Excellent
Potassium Chloride	Excellent
Potassium Dichromate	Fair
Potassium Hydroxide	Excellent
Potassium Nitrate	Excellent
Potassium Sulfate	Excellent
Propane, liquid	Excellent
Silver Nitrate	Excellent
Soaps	Excellent
Sodium Acetate	Excellent
Sodium Bicarbonate	Excellent
Sodium Bisulfate	Excellent
Sodium Carbonate	Fair (temperature < 72°F, 22°C)
Sodium Chlorate	Excellent
Sodium Chloride	Excellent
Sodium Cyanide	Excellent
Sodium Fluoride	Excellent
Sodium Hydroxide, 50%	Good (temperature < 120°F, 50°C)
Sodium Hypochlorite, 100%	Not Recommended
Sodium Nitrate	Excellent
Sodium Silicate	Excellent
Sodium Sulfate	Excellent
Sodium Sulfite	Excellent
Sodium Thiosulfate	Excellent
Stannic Chloride	Excellent
Stearic Acid	Good
Sulfuric Acid, 75-100%	Fair (temperature < 72°F, 22°C)
Sulfur Dioxide	Excellent (temperature < 72°F, 22°C)



Tannic Acid	Excellent
Tartaric Acid	Excellent
Toluene	Good (temperature < 72°F, 22°C)
Turpentine	Good
Urine	Excellent
Vinegar	Excellent
Water - Distilled	Excellent
Water - Fresh	Excellent
Water - Sea, Salt	Excellent
Xylene	Excellent
Zinc Chloride	Excellent