

Alkadur WE

Bedding and jointing mortar for ceramic tiles, hexagonal tiles, small mosaics and other brick materials.

Base

Epoxy resin

Material Group

Mortars, Jointing Materials

Description

3-component synthetic resin based mortar for jointing and bedding of acid resistant and ceramic tiles and bricks.

The material is easy to apply and is available in various colours. This special jointing mortar is water-soluble, so that recently jointed tile and mosaic linings can easily be cleaned with water.

The material is physiologically harmless.

Use

Laying and jointing of ceramic tiles, hexagonal tiles, small mosaics and other brick materials in breweries, dairies, in the pharmaceutical industry, in the food industry and many other industrial sectors. Please contact our application engineering for approval of the project-specific possible application.

Properties

- ▲ Water-emulsive
- ▲ physiologically harmless
- ▲ easy application

Physical Data

Property (unit), Test method	Value
Density (g/cm ³), DIN EN ISO 1183-1, ASTM D 792 (Laying cement)	1.58 / 1.54
Density (g/cm ³), DIN EN ISO 1183-1, ASTM D 792 (Jointing cement)	1.70 / 1.67
Lowest working temperature (°C)-(preheat material to 20 °C)	10
Maximum working temperature (°C) (cool material to 20 °C)	30

Chemical Resistance

The material is resistant to the following substances:

Organic acids	Fuels, oils	Alkalis	Inorganic acids
Lactic acid 20 %	Gasoline	Conc. potassium hydroxide	Conc. hydrochloric Acid
Citric acid 50 %	Hydraulic oil	Ammonia solution	Sulfuric acid 70 %
Acetic acid 10 %	Diesel oil	Conc. caustic soda	Phosphoric acid 50 %
Tartaric acid 25 %	Engine oil		
Oxalic acid 10 %	Fuel oil, light and heavy		

Please contact our application engineering for approval of the project-specific possible application.

Substrate

The system can be applied to dry, clean and grease-free substrates like steel, concrete, screed and masonry substrates. Usually it is applied onto lining systems and rubber linings of the Steuler-KCH program.

Concrete / screed

Refer to DIN EN 14879-1 as well as to STEULER-KCH-Formsheet 010.

To attain a sufficient adhesive tensile strength, the substrate is generally to be pretreated in such a way that it is free of cement slurry, cement skin, loose and crumbly particles, structure imperfections and separating substances.

The substrate should have a temperature of approx. 12 – 25 °C.

The joints have to be clean and free from separating agents. Tiles laid in thin-bed-method (cement-base) can be jointed 24 h after laying at the earliest. Tiles laid in thick-bed-method can be jointed only after drying of the cement bed (humidity content < 4%).

Moisture

Residual moisture content of concrete substrate must not exceed 4 %.

During application, the substrate must be kept absolutely dry. Uncured material has to be protected from any kind of moisture (condensation, fog, precipitation or other water source). Distance to dew point has to be at least 3 K, at a relative humidity of above 70 % at least 5 K.

Packaging / Shelf life

The products shall be stored and transported in a cool and dry place. Shelf life is specified for a storage temperature of 20 °C. Higher temperatures reduce, lower temperatures increase the shelf life.

Components	Colour approx.	Item number	Package	Content	Shelf life
Alkadur-WE-Solution 1 pigmented		Depending on color	Bucket	2.4 kg	24 months
Alkadur-WE-Solution 1 pigmented		Depending on color	Hobbock	22 kg **	24 months
Alkadur-WE-Solution 1 unpigmented		5035281014	Hobbock	22 kg **	24 months
Alkadur-WE-Solution 2		5035282116	Bottle	0.7 kg **	24 months
Alkadur-WE-Solution 2		5035282049	Hobbock	7 kg **	24 months
Alkadur-SB-WE-Powder		5011013001	Bag	25 kg **	24 months
Oxydur-WV-Powder		5011119002	Bag	20 kg	24 months
Steuler-Cleaner B		5040019003	Bag	5 kg	24 months
Steuler-Cleaner B		5040019001	Bucket	25 kg	24 months

** predosed packaging

Mixing Ratio / Consumption

Alkadur WE Laying mortar pigmented

	Part by weight	Part by volume
Alkadur-WE-Solution 1 pigmented	2.400	1.920
Alkadur-WE-Solution 2	0.700	0.700
Oxydur-WV-Powder	5.000	6.400
Consumption	1.580 kg / liter mortar mass	

Alkadur WE Jointing cement pigmented

	Part by weight	Part by volume
Alkadur-WE-Solution 1 pigmented	2.400	1.920
Alkadur-WE-Solution 2	0.700	0.700
Alkadur-SB-WE-Powder	10.000	7.100
Consumption	1.700 kg / liter mortar mass	

Alkadur WE Laying cement unpigmented

	Part by weight	Part by volume
Alkadur-WE-Solution 1 unpigmented	2.200	1.920
Alkadur-WE-Solution 2	0.700	0.700
Oxydur-WV-Powder	5.000	6.400
Consumption	1.540 kg / liter mortar mass	

Alkadur WE Jointing cement unpigmented

	Part by weight	Part by volume
Alkadur-WE-Solution 1 unpigmented	2.200	1.920
Alkadur-WE-Solution 2	0.700	0.700
Alkadur-SB-WE-Powder	10.000	7.100
Consumption	1.670 kg / liter mortar mass	

Waiting Times

See curing times.

Working Times

The working times depend on the temperature and are as follows:

20 °C	approx. 60 minutes
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Curing times

To support foot traffic: 16 h at 20 °C.

Waiting times to achieve full chemical resistance depend on the temperature and are as follows:

20 °C	7 days
10 °C	14 days

Safety measures

Mix and apply material only in well ventilated areas. Provide ventilation suited to the conditions when working in pits or tanks. Do not smoke!

Do not expose materials to heat or open flame. This applies in particular to welding works (weld beads). Avoid direct contact of the material with the skin. Wash hands with soap and water; do not clean the skin with solvents. Use barrier soap and protective creams on exposed skin areas. In all other respects comply with the relevant regulations for prevention of accidents.

Refer to the Safety Data Sheets!

Cleaning of Equipment

All equipment can be cleaned with water. Do not allow water to come into contact with the mortar during application.

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This issue replaces all previous versions.