cds-Mortar 0-3 L flex special
Technical Data Sheet No. 8816

Description: **cds-Mortar 0-3 L flex special** is a flexibilized, pigmented, 2-component epoxy resin mortar filled with special aggregates, solvent-free.

Application: Fast repair of damaged joint edges and breaks (such as holes) in concrete surfaces. Can also be used as the sub construction of airport-asphalt. Material serves as solid embedment of shallow bases in AGL-installations. The high share of binder in the mortar provides for the excellent epoxy resin bonding capacity. The mortar hardens without shrinkage. It is easy to apply the material. The packaged hardener needs to be mixed with the mortar. A solid, dry and clean subsurface is a prerequisite for perfect bonding and durability.

Properties: **cds-Mortar 0-3 L flex special** is resistant to fuel, de-icing salt, ageing and indifferent towards alkalinity of freshly poured concrete.

Specific weight (mixture):	2,0 g / cm³
Solids content:	98 ± 2 % by weight
Mixing ratio:	96 : 4

	Application time (minutes)			Hardening (walkable) (hours)			Chemically stable after (days)		
	+10°C	+20°C	+30°C	+10°C	+20°C	+30°C	+10°C	+20°C	+30°C
Hardener S	-	45	20	-	18	12	-	5	3
Hardener FH	45	20	-	24	12	-	5	4	-
Hardener FH-Super	15	10	-	8	4	-	4	3	-

Lowest application temperature:	+15 °C with Hardener S +5 °C with Hardener FH +3 °C with Hardener FH-Super
Highest application temperature:	+35 °C with Hardener S +25 °C with Hardener FH +20 °C with Hardener FH-Super
Impermeability to water:	From 10 mm thickness on
Compressive strength:	50 MPa (N / mm²)
Flexural tensile strength:	23 MPa (N / mm²)
Adhesive tensile strength:	>2.0 MPa (N / mm²)
Chemical resistance:	Fuel resistant, resistant to de-icing agents
Shrinkage:	Less than 0,1 %

Concrete surfaces that can be driven when the mortar has reached a compressive strength of ≥ 20 MPa. When using **cds-Mortar 0-3 L flex special** with Hardener FH-Super, this value is reached after 2.5 hours at a temperature of +23 °C and the repair area can be rolled over with vehicles with pneumatic tires.

Subsurface: The mineral substrate must be dry, load-bearing, fine-grained and free of sludge, dust, loose particles, grease and oil. Prepare concrete surface by milling, sanding or using a wire brush. Then remove loose parts by blowing off. After preparation, the adhesive strength of the concrete substrate should be at least 1.5 N / mm². As bonding agent **cds-Adhesive** is generally used. The use of a primer is mandatory!

05/2024
cds Polymere GmbH & Co. KG
www.cds-polymere.de
Gau-Bickelheimer-Straße 72
55576 Sprendlingen/Rhh.
Germany
Tel. +49 6701 9350-0
Fax +49 6701 9350-50
info@cds-polymere.de

Mixing:

Base (A) and hardening components (B) are packed in the exactly measured mixing ratio. Pour component B completely into component A, and then mix the components together thoroughly. Scrape off the sides and bottom of the mixing container repeatedly and thoroughly during mixing. In order to prevent mixing errors, pour the pre-mixed material into a clean container, and again stir thoroughly.
When preparing large quantities, the use of a double zone mixer is recommended. Suitable are electrically, manual agitators (such as drilling machines rotating slowly at max. 400 rpm with screw basket mounted). Forced mixers are most appropriate.

Processing:

After mixing the mortar should be applied without any delay within 30-45 minutes.
Consumption: depending on the volume to be filled and calculated on the base of the specific weight.
After the preparation work has been finished, the mortar is spread or filled into formwork. Formwork insulation oil, paper or foil prevent the mortar from bonding and allow to remove the formwork after mortar hardening.
The following should be considered when repairing edges around joints:

- **Avoid bridge formation in joints**
- **Don't make the concrete surface run out to zero but square the patch**
- **to repair and finish it up with approximately 5 mm of mortar**
- **Opposing edges should be flush with each other**
- **Use a trowel to rub on mortar well**
- **Smoothen mortar surface with steel or plastic float**
-

Cleaning:

Tools should be cleaned immediately after the end of the work or before extended interruption of the work using **cds-EP-Thinner / Cleaner**. Material components and cleaner must not be allowed to enter the drainage system, water or ground water, but must be disposed of properly.

Delivery unit: 20 kg, 25 kg including hardener
Colours: Grey
Shelf life / Storage: 1 Year dry storage, at +10 °C to +20 °C, avoid direct sunlight

Danger warnings:

Avoid contact with the skin, especially in the case of the hardener. Use a grease-free skin protection cream. If spray or splashes get into the eyes, rinse thoroughly with water and seek medical assistance immediately.
Please observe the prevailing general safety and protection regulations together with the hazard and precautionary statements on the supply containers. Containers must be stored out of the reach of children, and children should also be kept out of the area during application.
After hardening the product is physiologically harmless.
Cured leftovers can be depolluted in an appropriate incineration plant.
EU-limit, according to Deco-paint code (VOC-content): contains < 500 g / l (2010)
Giscode: RE 1

ADR class:

Base component A:	None
Hardener (B):	Class 8, II

05/2024
cds Polymere GmbH & Co. KG
www.cds-polymere.de
Gau-Bickelheimer-Straße 72
55576 Sprendlingen/Rhh.
Germany
Tel. +49 6701 9350-0
Fax +49 6701 9350-50
info@cds-polymere.de

Our information about our products and equipment, as well as our systems and procedures, is based on comprehensive research work and technical experience. These results are provided, either verbally or in writing, to the best of our knowledge and experience, and we accept no further liability over and above that of the relevant contract in question. We also reserve the right to make technical changes and modifications during the course of product development. In addition, our Technical Service is available on request for further advice or assistance in the resolution of any technical or application problems. This does however not relieve the user of the responsibility to check our information and recommendations on his own responsibility prior to using the product for his own purposes. This applies - particularly in the case of foreign deliveries - also with respect to the protection of the proprietary rights of third parties, as well as for applications and procedures not specifically specified by us in writing. In the event of damage, our liability is restricted to replacement to the same degree or extent, as defined in our General Sale Conditions (available on www.cds-polymere.de).

CE-mark for cds-Mortar 0-3 L flex special:

CE	
cds Polymere GmbH & Co. KG Gau-Bickelheimer Straße 72 55576 Sprendlingen/Rhh.	
12	
EN 1504-3	
Repair product for structural repair (based on organic resin PC)	
Compressive strength:	class R4
Chloride ion content:	≤ 0.05 %
Adhesion strength:	≥ 2.0 MPa
Modules of elasticity:	NPD
Dimensional stability:	≥ 2.0 MPa (Bond steength after test)
Freeze-thaw-resistance:	≥ 2.0 MPa (Bond stength after test)
Coefficient of thermal:	NPD
Dangerous substances:	Consistant with point 5.4
Fire resistance:	$E_{(fl)}$ (B2)

05/2024
cds Polymere GmbH & Co. KG
www.cds-polymere.de
Gau-Bickelheimer-Straße 72
55576 Sprendlingen/Rhh.
Germany
Tel. +49 6701 9350-0
Fax +49 6701 9350-50
info@cds-polymere.de