



Description: **cds-Mortar 0-3 L flex special** is a pre-packed two component product which requires to be mixed, solvent-free, 100 % reactive, with internally flexibilized 2-component epoxy resin.

Application: Fast repair of decayed joint edges and breaks (such as holes) in concrete surfaces. 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 wt.
 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,
 not resistant to Skydrol.
 Shrinkage: less than 0,1 %

Subsurface: The thorough, careful cleansing is critical for the bonding. Cut cracks or concrete edges with a chisel approximately 1 cm deeper into the stable concrete. Any sections which are loose or have come off and any dust particles should be removed as well. Oil and other fatty, dirty layers are detrimental to bonding.

They should be removed too.

As primer **cds-Adhesive** is generally used. It is not possible to use the mortar without primer!

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 0,5 cm of mortar**
- **Opposing edges should be flush with each other**
- **Slightly chamfer edges along the joints**
- **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 sizes: 8 kg, 20 kg, 25 kg containers inclusive of hardener

Colours: concrete grey

Storage: 2 years in original, sealed container, in cool, frost-free, dry storage.



Danger warnings: Avoid contact with the skin, especially in the case of the hardening components. 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 danger warnings and safety suggestions 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)

ADR class: Base component A: not applicable
Hardener (B): Class 8, II

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 Terms and Conditions of Business for Deliveries and Services.

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

	
cds Polymere GmbH & Co. KG Gau-Bickelheimer Straße 72 55576 Sprendlingen/Rhh.	
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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 strength after test)
Freeze-thaw-resistance:	≥ 2.0 MPa (Bond strength after test)
Coefficient of thermal:	NPD
Dangerous substances:	Consistant with point 5.4
Fire resistance:	E ^(fl) (B2)