cds-AGL BeddingMortar
Technical Data Sheet No. 8816

Description: **cds-AGL BeddingMortar** is a pigmented, two-component epoxy resin mortar filled with special aggregates and containing a plasticiser-free, permanently plasticised binder.

Application: **cds-AGL BeddingMortar** used to embed shallow bases for underfloor lighting in asphalt surfaces on runways.

Properties:

Specific weight (mixture):	2,0 g/cm³
Solids content:	> 99 % 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	-

Minimum curing or object temperature:	+ 15°C with Hardener S + 5°C with Hardener FH + 3°C with Hardener FH-Super
Maximum processing or object temperature:	+ 30°C with Hardener S + 25°C with Hardener FH + 20°C with Hardener FH-Super
Compression strength:	ca. 50 MPa
Tensile bending strength:	ca. 23 MPa
Bonding strength to concrete:	≥ 1,5 MPa

Concrete surfaces can be opened to traffic once the substrate has reached a compressive strength of ≥ 20 MPa.
When using **cds-AGL BeddingMortar** with Hardener FH-Super, this value is reached after 2.5 hours at a temperature of T= 23 °C, and the repaired area can be driven over by vehicles with pneumatic tyres.

Subsurface: The mineral substrate must be dry, stable, fine-grained and free of sludge, dust, loose particles, grease and oil. Pre-treat the substrate, e.g. by sanding or using a wire brush. Then remove loose particles by vacuuming with an industrial vacuum cleaner. After preparation, the surface tensile strength of the concrete substrate must be ≥1.5 MPa on average (minimum individual value ≥ 1.0 MPa).

Mixing: The base component (A) and hardener component (B) are packaged in precisely measured mixing ratios. Component B is emptied completely into component A (drip out or scrape out), then both components are mixed thoroughly and intensively. An electric hand mixer is recommended for mixing, e.g. a slow-running drill (300-400 rpm) with a mixing basket attached. When mixing, scrape the sides and bottom of the container several times. To completely rule out mixing errors, the mixed material must be transferred to a clean container, stirred again and then processed quickly.

01/2026
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Processing:

Processing may only take place if the temperature of the substrate is at least 3 °C above the prevailing dew point temperature. The relative humidity must not exceed 75% (at 10°C) or 80% (at 23°C) when installing the material.
Partial quantities, e.g. halving the mortar and hardener, may only be removed by weighing accurately.
Comp. A must be mixed thoroughly before removing partial quantities.

Installation:
After mixing, apply **cds-AGL BeddingMortar** to the substrate in the drill hole. Fix and align the shallow base for airfield underfloor lights by pressing the shell into the mortar bed. Once the mortar has hardened, grout with **cds-AGL BaseGrout UW flex** up to the upper edge of the asphalt road surface.

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:

25 kg (bag) incl. Hardener

Colours:

(Concrete)-Grey

Shelf life/ Storage:

Shelf life of both components is two years after date of production, if stored in sealed, original container. Keep container tightly closed, store in a dry place and, if possible, at +10 °C to +20 °C. Avoid direct sunlight.

Danger warnings:

Avoid skin contact, especially with the hardener component. If splashes get into the eyes, rinse immediately with plenty of water and seek medical advice immediately.
Please observe the general safety regulations of the employers' liability insurance association, in particular the instructions for use 'Epoxy resins in the construction industry' (www.arbeitssicherheit.de), as well as the hazard warnings and safety advice in the safety data sheets and on the delivery containers. The containers must be stored in a child-proof manner and children must be kept away during processing. After curing, the product is physiologically harmless.
Product residues can be disposed of with household waste after curing. Uncleaned packaging and liquid components must be disposed of in accordance with official regulations (see information in the safety data sheet). Cured product residues can be recycled in a suitable waste incineration plant under waste code number 20 03 01 'Mixed municipal waste'.

VOC content labelling, EU Regulation 2004/42 (Decopaint Directive):
Cat AII/j/sb, EU limit value 500 g/l (2010):
cds-AGL BeddingMortar contains < 500 g/l VOC.

Giscode: RE90

ADR class:

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

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DIN EN 1504-3 ‘Products and systems for the protection and repair of concrete structures’ - Part 3: Structural and non-structural repair; German version EN 1504-3:2005 - specifies requirements for the identification, performance characteristics and safety of products and systems used for the structural and non-structural repair of concrete structures.

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CE-labeling cds-AGL BeddingMortar:

CE	
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DIN EN 1504-3	
Concrete repair products (PC) for renovation (based on reaction resin EP)	
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)

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