

cds-Adhesive

Technical Data Sheet No. 9900

Description: **cds-Adhesive** is a thixotropic 2-component epoxy resin.

Application: It serves as bonding agent between old and new cement concrete or between concrete and **cds-mortars**. It is of excellent bonding on roughened surfaces and those rough from breakage, and it is indifferent to the alkalinity of freshly spread cement mortar. The only prerequisite is the dry oil- und fat-free concrete subsurface to be of a minimum 1,5 N/mm² surface tensile strength.

Properties: Specific weight (mixture): 1,5 g/cm³
 Mixing ratio: 83:17

	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	-	30	15	-	12	6	-	7	5
hardener FH	20	15	-	8	5	-	10	7	-
hardener FH-Super	10	5	-	6	4	-	5	3	-

Lowest application temperature: + 10°C with hardener S
 + 5°C with hardener FH
 + 3°C with hardener FH-super

Elasticity module based on compression strength according to DIN 53457: 2700 N/mm²

Tensile strength according to DIN 53455: 50-60 N/mm²

Subsurface: Thorough, careful cleansing is essential for the perfect bonding. Weathered surfaces or any other decayed structures of old concrete surfaces should be chiselled out or blasted by a torch flame down to the solid concrete. If blasted with a torch flame, the subsurface need to be slightly milled or sandblasted. The same treatment is necessary with brittle rock along slabs or edges broken away. Milling and sandblasting treatment, on the contrary, should be done when dirt layers only should be removed from new concrete surfaces. After mechanical pre-treatment, dust on surfaces prepared for painting need to be swept away or blown away with a broom.

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.

Processing: The material can be painted on, preferably with a scrubbing broom with natural bristles or broad brushes used for wide surfaces.

Consumption: 0,5-0,8 kg/m².

When using **cds-Adhesive** make sure to work the „wet-in-wet“ way - what means, that cement mortar or **cds-PC-Mortars** need to be applied on the still fluid, sticky bonding agent coat.

If the job must be interrupted or the already applied bonding agent coat can no more be covered with mortar prior to the coat solidification, dry quartz sand, 0,4-0,7 mm grit, need to be broadcasted over the bonding agent coat. The sand, which does not stick, need to



be swept off prior to job resumption and another bonding agent coat will be painted on.

When painting the bonding agent on, the fresh concrete or cement mortar shall not be moister than normal moist soil. In addition to the subsurface interruptions, described above, edges sloping to the subsurface grade, need to be interrupt off at an angle of 90 °C and approximately 2 cm deeper than the surface because the applied fresh concrete should be of a minimum 2 cm thickness.

Install the joint board or the formwork prior to painting the bonding agent on. Prior to its installation, formwork (wood or metal) should be painted with an insulator (such as formwork oil) to prevent the bonding agent to stick. Foils and bituminous paper are suiting as well.

The clearance between the joint board and joint bottom should be painted on bonding agent to the adjacent concrete slab. Carefully paint the bonding agent up to the slab limits to enable perfect bonding also in the weakest parts of old concrete/new concrete. Having spread the fresh concrete, it is shaken by a shaking board or compacted manually. The fresh concrete surface shall then be graded by a grading board or rotary levelling machine.

The new concrete must be retreated in compliance with the „Regulations for the Construction of Concrete Driveways“. The joint board shall be removed after 48 hours only. If, in spite of the placed joint board, a sticky layer (bonding agent bridge to the adjacent concrete slab) developed itself, the latter must in any case be cut by a cut-off wheel.

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: 2 kg, 4 kg and 10 kg containers incl. hardener

Colours: yellowish-grey-glazed

Storage: Shelf life 12 months. Keep package well closed, dry and store preferably at + 15°C to 20°C.

Danger warnings: Avoid contact with the skin, especially in 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.



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EU-limit, according to Deco paint code (VOC-content):contains < 500 g/l (2010)

**GGVS/ADR
class:**

Base component A:	grade 9, III
Hardener S:	grade 8, III
Hardener FH, FH-Super:	grade 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.