

Acrydur™ 510 (GB)

Lowly viscous, flexible synthetic resin mortar
for coatings on cement floors

Application: Acrydur™ 510 is suitable for creating low-bond coatings in the heavy-load area.

Characteristics: The flexible mortar coatings made from Acrydur™ 510 are suitable for interiors with heavy-load-transport. They are durable and wear-resistant. In order to obtain optimal abrasion ratings, the exact formulation has to be followed

Data:

Conditions	liquid	
Flow time at 20 °C	30 -45 sec/DIN flow cup 4 mm	
Aushärtung	25 - 35 min (20°C)	
Density at 20 °C	DIN 51757	1.00 g/cm ³
Flashpoint	DIN 51755	+10 °C
Storage in a dark place at < 20 °C,	6 months maximum	

Due to the grain size of the mortar /sand mixture it is only possibly to process layers of 2 mm thickness.

Acrydur™ 510/1 mortar coat, 5 till 10 mm:

This coating permits the installation from up to 10mm thick coverings on pre-coated concrete in one workstep. The coatings are mechanically highly loadable and can be for instance sealed with Acrydur™526.

		consumption per mm ca
17.0 PBW	Acrydur™ 510	0.4 kg/m ²
83.0 PBW	Acrydur™ Mortar mixture Nr.C2	1.8 kg/m ²

Acrydur™ 510 and hardener powder are being mixed and subsequently Acrydur™ filler C2 is being added. Mixing time in the in the compulsory mixer takes about 3 minutes. Processing of the mortar is being effected with s smoothing trowel and wipe strip. For layer thickness > 10mm add up to 20% PBW of the filler 2.0 to 3.0 mm to the mixture. The mortar mix has to be compacted well during processing. Air pockets cause curing disturbances.

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Data:

Density:		approx. 2.2 kg/l
Proportion of binder:		approx. 0.4 kg/m ²
Material consumption:		approx. 2.2 kg/m ²
Compressive strength:	DIN 1164	approx. 34 N/mm ²
Bending strength:	DIN 1164	approx. 24 N/mm ²
E-module:	DIN 53457	approx. 4350 N/mm ²
Vicat melting temperature	DIN 53460	approx. 48 °C
Ball hardness	DIN 53456	approx. 41 N/mm ²
Thermal coefficient of expansion	VDE 0304/1	approx. 40*10 ⁻⁶ K ⁻¹

**Pot life and curing time
 depending on**

the temperature:

temperature (°C)	hardener* (% by vol.)	pot life (min.)	curing time (min.)
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+ 5	3.0	~ 15	~ 35
+ 10	2.0	~ 10	~ 30
+ 20	2.0	~ 10	~ 25
+ 30	1.0	~ 10	~ 25

*amount of hardener is calculated for total formulation

Hints:

The coating process has to be continued **after** entire **hardening** of the previous layer.

Storage:

Methacrylate resins are subject to the handling regulations of highly flammable materials. Acrydur™ resin has to be kept cool, at temperatures between 15 – 20° C. Keep away from direct sun. During the storage paraffin - particles can be deposited. Therefore materials have to be carefully checked before processing the mixture.

Please note the advice of our safety datasheet.

data concerning our products and devices as well as concerning our data and procedures are based on an extensive research work and an application technology experience. We obtain these results, with which we do not take over adhesion going beyond the respective single contract, in word and writing after best knowledge, reserve ourselves we however technical changes in the course of the product development. Beyond that our application technology service stands when desired for large consultation as well as for co-operation with the solution manufacturing and application technology problems for order. That does not relieve the user however to examine our data and recommendations before their use responsible for the own use. That applies - particularly for deliveries to foreign markets - also regarding the keeping of patent rights third as well as for applications and procedures, which are not expressly in writing indicated by us. The case of loss our adhesion is limited to indemnifications of same extent, as they plan our general terms of delivery and sales with lack of quality.