

DEGADUR® 510

Low-viscous, elasticized methacrylate resin for manufacturing of mortar coatings on cement concrete.

Properties

The flexible mortar coatings produced with DEGADUR® 510 are suitable for indoor areas with heavy transport movements. These coatings are wear resistant and resistant to ageing. In order to obtain an optimum wear resistance the formulation must be followed exactly.

Guide formulation:

510/1 - self-levelling coating / 5 - 10 mm / can be sprinkled with quartz sand

17	% by wt.	DEGADUR® 510
15	% by wt.	heavy spar, calcide or quartz powder (0 - 0.06 mm)
35	% by wt.	quartz sand (0.1 - 0.4 mm)
33	% by wt.	quartz sand (0.7 - 1.2 mm)

This formulation allows the installation of coatings up to 10 mm on primed concrete in one operation. The coatings can be subjected to heavy mechanical loads, and can be sealed (e.g. with DEGADUR® 528). DEGADUR® 510 and the hardener powder are premixed, and then the fillers are added. The mixing time is about 3 minutes. The mortar is applied by gage rake and trowel. For a layer thickness > 10 mm up to 20 % by weight of quartz sand (2 - 3 mm) can be added to this mixture.

Guide formulation:

510/2 - coving

30	% by wt.	DEGADUR® 510
25	% by wt.	quartz sand (0.1 - 0.4 mm)
45	% by wt.	quartz sand (0.7 - 1.2 mm)
1.7	% by wt.	AEROSIL® 200

This formulation is suitable for covings to achieve a good floor-wall transition. Application only onto primed, sprinkled substrates. First the AEROSIL® 200 should be well dispersed in DEGADUR® 510, then the hardener is added, finally the fillers are mixed in. This formulation is applied with special coving trowels.

DEGADUR® 510**Pot life and hardening time at different temperatures**

Formulations 510/1, 510/2

Temperature [°C]**	Hardener [% by wt.]*	Pot life [min] ***)	Hardening time [min]
5 - 10	6.0	approx. 20 - 25	approx. 35 - 55
10 - 20	4.0	approx. 15 - 25	approx. 30 - 45
20 - 30	2.4	approx. 15 - 20	approx. 30 - 45
> 30	1.2	approx. 15 - 20	approx. 30 - 45

*) Quantity calculated on DEGADUR® 510.

**) Temperature statements refer to resin-, floor- and air-temperature.

***) The indication of the approximate pot life always refers to the lower temperature.

Note: All values are derived from laboratory tests. Deviations caused by environmental factors might occur.

Typical properties are approximate reference values. If you need product specifications please contact us.

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Product Information
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