

Acrydur™ 510 Terrazzo

Low viscosity, elasticized resin
for the production of synthetic resin terrazzo

Application: Acrydur™ 510 is suitable for the production of resin-poor terrazzo floorings due to its low viscosity.



Characteristics: Terrazzo of Acrydur™ 510 is suitable for indoor and outdoor applications with medium and high loads. They are durable and resistant to wear. Ensure exact compliance with the mixture to achieve optimum levels of wear and tear. Diverse colour-effects can be achieved and the use of locally available aggregates, gravels, granules or recycling Glass grant the planner or user a wide variety for optical design. The quick installation time as well as the grind-ability after 2 hours distinguishes the Acrydur™ 510 Terrazzo from traditional terrazzo systems of concrete or epoxy resins. Besides the quick installation time the Acrydur™ Terrazzo offers high abrasion resistance and chemical resistance.

Data:

Delivery form		liquid
Flow time (73 °F;23°C)	ISO 2431	20 - 30 sec/4 mm
Density (68 °F;20°C)	DIN 51757	0.0022 lb/cm ³ ; 0,97g/cm ³
Refraction index n _D ²⁰	DIN 53491	1.44
Pt/Co-Scale	APHA	< 50
Flash point	DIN 51755	+50 °F; 10°C
Storage, in a dark place at < 68 °F, 6 months maximum		

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Acrydur™ 510/1 Terrazzo, 5 – 15 mm:

This formulation allows the installation of up to 15 mm thick terrazzo in one operation, on with Acrydur™ 112 pre-primed concrete. The terrazzo coverings are mechanically highly resilient and must be sealed

17.0 PBW	Acrydur™ 510	app. Consumption per mm	1.94 lb/m ²
83.0 PBW	Acrydur™ Mortar mix No.C2		3.96 lb/m ²
0.6 GPBW	Acrydur™ Hardener powder 50W		0.028 lb/m ²

The base mixture of Acrydur™ 510 can be dyed depending on the desired colour direction using dry pigments or pigment pastes. When using dry pigments add 5-10 wt.-% to the mixture, the addition of pastes varies between 2 and 5 wt.-%. (Calculated on the pure amount of Acrydur™ 510 resin)

Processing:

Acrydur™ 510 and hardener powder 50W are premixed, then add Acrydur™ Mortar mix No. C2 and pigment (if needed). This mixture is then mixed for app. 3 minutes using a compulsory mixer. The processing of terrazzo coating is carried out with peel and trowel. Up to 50 wt.-% of a filler (5.0 - 10.0 mm) are added for the colour design. The resulting mortar mix should be well compacted during processing. Air inclusions lead to curing disorders!

Data:

Density		app. 18.36 lb/gal
Proportion of Binder		app. 0.88 lb/m ²
Material consumption		app. 4.86 lb/m ²
Compressive strength	DIN 1164	app. 34 N/mm ²
Bending strength	DIN 1164	app. 24 N/mm ²
E-Module	DIN 53457	app. 4350 N/mm ²
Vicat melting temperature	DIN 53460	app. 118.4 °F
Ball hardness	DIN 53456	app. 41 N/mm ²
Thermal coefficient of expansion	VDE 0304/1	app. 40·10 ⁻⁶ K ⁻¹

Due to the grain fraction of the mortar mix No. C2
only layer thicknesses over 4 mm can be achieved

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Pot life and curing time depending on the temperature:

Temperature		Hardener (Vol-%)*	Pot life (min)	Cruing time (min)
+41°F	+5°C	3,0	~25	~70
+50°F	+10°C	2,0	~20	~60
+68°F	+20°C	1,0	~20	~55
+86°F	+30°C	0,5	~20	~50

*Amount of hardener is calculated passed on the amount of resin

Hints:

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

Grinding:

The Grinding of the terrazzo covering can already be done after 2 hours using a grinder with diamond disc, preferably using the wet grinding method. To close pores and voids in the terrazzo flooring apply a scratch coat after the first grinding.

Scratch coat:

80.0 PBW Acrydur™ 112
20.0 PBW Acrydur™ Aerosil 200
10.0 PBW Pigment
0.6 PBW Acrydur™ Hardener powder 50 W *

* temperature-dependent

After the curing of the scratch coat, the surface is grinded down until a homogenous grain and texture is seen again.

Sealing:

A two-time sealing of Acrydur™ 522 is rolled up onto the cleaned terrazzo surface. The maximum material application should be at 2 x 0.9 lb/m².

After curing of the first sealing the surface is briefly grounded using a ground grid K100. When the second sealing is cured the grinding and polishing of the surface begins.

After grinding the terrazzo a consolidation treatment is done using a self-gloss dispersion. We recommend DREITURM DURO TOP.

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For entertaining cleaning we recommend clear wipe care (DREITURM GOLDREIF).

As alternative the terrazzo can be sealed with Plastipur® 570. Is a solvent-free, non-filled and non-pigmented 2-component reaction plastic based on aspartic esters.

For further details of the processing of terrazzo please read the **Work instructions for Acrydur™ 510 terrazzo**.

Storage:

Methacrylate resins are subject to the handling regulations of highly flammable materials. Acrydur™- resin has to be kept cool, at temperatures between 59 – 68 °F. 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.