

Plastifloor® - 510 N (USA)

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

Application Plastifloor® 510 N is suitable for creating low-bond coatings in the heavy-load area.

Characteristics: The flexible mortar coatings made from Plastifloor® 510 N 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.

Characteristic data:

Delivery form	liquid, blue	
Flow time	30 - 45 sec (68°F)	DIN flow cup, 4mm
Curing	25 - 35 min (68°F)	
Density	8.3454 lb/gal	(68°F)
Flashpoint	50°F	
Shelf life	In the original container, dark at < 65°F maximum 6 months	
Bundle	396.83 lb drums 55.12 lb, 22.05 lb pails	

Plastifloor® 510 N permits the installation from up to 10mm thick coverings on pre-coated concrete in one work step. The coatings are mechanically highly loadable and can be for instance sealed with Plastifloor® 526.

Processing Notes:

Suggested
formulation:
5 - 10 mm

		Consumption
17.0 ppW	Plastifloor® 510 N	0.082 lb/ft ²
83.0 ppW	Plastifloor® Mortar Mix C2	0.369 lb/ft ²

Processing:

Plastifloor® 510 N and hardener powder are being mixed and subsequently Plastifloor® filler C2 is being added. Mixing time in the compulsory mixer takes about 3 minutes. Processing of the mortar is being effected with a smoothing trowel and wipe strip. For layer thickness > 10 mm add up to 20% ppW of the filler 6 to 10 mesh to the mixture.

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The mortar mix has to be compacted well during processing. Air pockets cause curing disturbances.

Pot life and curing times depending on temperature:

Further coating layers with Plastifloor® must only be applied after the previous layers have completely cured.

Temperature [°F]	Hardener [Vol-%] *	Pot life [min]	Curing time [min]
+ 41	3	~ 15	~ 35
+ 50	2	~ 10	~ 30
+ 68	2	~ 10	~ 25
+ 86	1	~ 10	~ 25

* Hardener quantity calculated on pure resin (Hardener 50 W)

Attention: Hardener quantities below 1 Vol. % may cause polymerisation failures!

Characteristic data of 10 mm coat:

Density		18.36 lb/gal
Proportion of binder:		0.082 lb/ft ²
Material consumption:		0.45 lb/ft ²
Compressive strength	DIN 1164	24 N/mm ²
Flexural strength	DIN 1164	34 N/mm ²
E-module	DIN EN ISO 527	4350 N/mm ²
Vicat softening temperature	DIN 53460	118.4 °F
Ball indentation hardness	DIN 53456	41 N/mm
Thermal expansion coefficient	VDE 0304/1	40·10 ⁻⁶ K ⁻¹

Storage:

The handling-regulations for highly flammable materials apply to methacrylate – resins. Plastifloor® resins are to be stored cool, protected against direct sunlight and preferably at temperatures of 59 - 68 °F. During storage paraffin – particles and filler – materials may precipitate. Thus before processing, containers have to be stirred up well. Please mind the advice on our safety data sheets.

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.