

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

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

**Characteristics:** The flexible mortar coatings made from Plastifloor® 510 are suitable for interiors with heavy-load-transports. 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<br>maximum 6 months |                   |
| Bundle        | 396.83 lb drums<br>55.12 lb, 22.05 lb pails                   |                   |

Plastifloor® 510 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           |  | 0.082 lb/ft² |
| 83.0 ppW | Plastifloor® Mortar Mix C2 |  | 0.369 lb/ft² |

Processing:

Plastifloor® 510 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.

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

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 <sup>2</sup>            |
| Material consumption:         |                | 0.45 lb/ft <sup>2</sup>             |
| Compressive strength          | DIN 1164       | 24 N/mm <sup>2</sup>                |
| Flexural strength             | DIN 1164       | 34 N/mm <sup>2</sup>                |
| E-module                      | DIN EN ISO 527 | 4350 N/mm <sup>2</sup>              |
| Vicat softening temperature   | DIN 53460      | 118.4 °F                            |
| Ball indentation hardness     | DIN 53456      | 41 N/mm                             |
| Thermal expansion coefficient | VDE 0304/1     | 40·10 <sup>-6</sup> K <sup>-1</sup> |

**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.