

Plastifloor® - 800 N PUMMA hybrid (USA)

Higher-viscous, elasticized PU-MMA resin with high flexibility at very low temperatures. For 2-component floor coatings on concrete substrates in coolers and freezers. Also to be used as liquid water-proofing and joint grouting mass for movement joints.

Application: Coatings based on Plastifloor® 800 N excel in high low-temperature flexibility. Plastifloor® 800 N is also used as membrane layer for Plastifloor® coatings and is thus especially appropriate for application in coolers and freezers. Furthermore Plastifloor® 800 N may be used as grouting component for movement joints with very good low-temperature flexibility in outside sections. (Ice skating field joints)

Characteristics: Plastifloor® 800 N is a viscous elasticized PU-MMA hybrid resin with especially high flexibility at very low-temperatures. This resin may be used for constructing membranes and coatings in coolers and freezers as well as for liquid waterproofing and as a joint filler. Together with our PET/SL filler that has been especially developed for this type of resin, the coating will stay more elastic, even at low temperatures. Thus the resin can be used for car park coatings, bridge deck overlays and pool coatings. The resin can be used also for roofing, inlets and to protect dome lights.

Characteristic data:

Delivery form	liquid, blue	
Flow time	53 - 68 sec (68°F)	DIN flow cup, 6mm
Curing	45 - 60 min (68°F)	
Density	8.5123 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

Processing Notes:

Suggested formulations:

Plastifloor® 800 N can be filled as described below with fillers and pigments for producing a coating mass that is ready for application.

800 N/1

Membrane Layer 80 ppW Plastifloor® 800 N
1 - 2 mm 20 ppW Plastifloor® Quartz powder 1600

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800 N/2

Coating, broadcast 50 ppW Plastifloor® 800 N
5 - 8 mm 24 ppW Plastifloor® Quartz powder 1600
24 ppW Quartz sand 20 - 40 mesh
2 ppW Pigment powder

800 N/3

Joint grouting 80 ppW Plastifloor® 800 N
15 ppW Plastifloor® Quartz powder 1600
5 ppW Pigment powder

800 N/4

Waterproofing membrane 60 ppW Plastifloor® 800 N
40 ppW Plastifloor® Quartz powder 1600

Add 3 - 4 Vol.-% Plastifloor® Hardener 50 W to each formula (see chart).

Processing:

Recipe 800 N/1 is applied to the substrate, pre-primed with Plastifloor® 112 N or 113 N by using a notched trowel made of metal or MMA durable plastic. Recipe 800 N/2 is pre-dispersed by a pin squeegee and evened by a smoothing trowel. This formulation is especially suitable for floors in coolers and freezers (down to -86°F). For increasing the pressure resistance and grip, the flow coating is being broadcasted to excess with quartz sand - size 15 - 35 mesh. Remove the surplus sand before applying the topcoat. Plastifloor® 800 N coatings should be sealed with Plastifloor® 528 N (clear or pigmented) or followed by another coating layer.

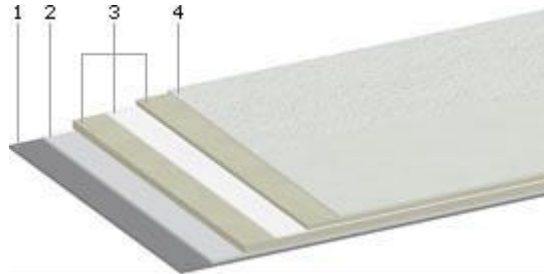
Recipe 800 N/3 is used for casting interior and exterior pre-primed movement joints. Especially observe the fact that the casting compound will only form a compound on the joint's side flanks if this has carefully been primed with Plastifloor® 112 N.

In recipe 800 N/4 the resin Plastifloor® 800 N is mixed with filler 800 PET. It serves for producing highly elastic, waterproof sealing layers on car park decks, balconies, roofs and terraces. The Plastifloor® 800 N resin and filler 800 PET mix is applied to the surface that has been primed with Plastifloor® 112 N, then compounded by a polyester fleece and coated wet-in-wet.

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System structure 800N/4:



1. substrate
2. primer Plastifloor® 112 N
3. waterproofing with Plastifloor® 800 N with PET filler, Polyester fleece
4. topcoat with Plastifloor® 528 N (optional)

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	5	~ 25	~ 70
+ 50	4	~ 25	~ 60
+ 68	3	~ 20	~ 45
+ 86	2	~ 25	~ 50

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

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

Thinner: up to 5 Vol.-% Plastifloor® Accelerator 440

Processing below 32°F: Please use Plastifloor® Accelerator B101!
Dosage according to data sheet Plastifloor® Accelerator B101

Hints: To be applied only on primed surfaces! Good ventilation during processing ensures good curing.

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Characteristic data of finished coat:

Plastifloor® 800 N resin samples tested at 68°F, clear resin, cured with 3% hardener 50W.

Shore D Hardness	EN ISO 868	33
Tensile strength	EN ISO 527	12 MPa
Elongation (max strength)	EN ISO 527	200 %
Elongation (rapture)	EN ISO 527	402 %
E-module	EN ISO 527	150 MPa

Plastifloor® 800 N samples tested at 4°F

Shore A Hardness	EN ISO 868	17
Tensile strength	EN ISO 527	21 MPa
Elongation (max strength)	EN ISO 527	50 %
Elongation (rapture)	EN ISO 527	88.9 %
E-module	EN ISO 527	455 MPa

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.

VbF: A I

GISCODE: RMA 10

Customs Number: 320 820 10

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