

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.

Properties:

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:

Form of delivery		liquid, blue
Flow time	53-68 sec (68°F), DIN flow cup, 6mm	
Curing	45-60 min (68°F)	
Density at 68°F	DIN 51757	0.0022 lb/cm ³
Flashpoint	DIN 51755	+50°F
Shelf-life, dark at < 68 °F	6 months maximum	
Bundle		396.83 lb drums 55.12 lb, 22.05 lb pails

Activator: Plastifloor® 800 N is pre-activated for temperatures from + 41°F to + 86°F.

Initiator/hardener: Hardener powder (BPO), depending on temperature

Thinner: up to 5 Vol.% accelerator 440

VbF: A I

GISCODE: RMA 10

Storage conditions: Storage at ≤ 77°F. Avoid direct sunlight. At temperatures below + 59°F, the paraffin dissolved in the binding agent may precipitate. **It is absolutely necessary to stir up well the resin before application.**

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Properties: 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)

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

Suggested formulations:

800 N/1 80.0 PBW Plastifloor® 800 N
Membrane layer, 1 - 2 mm 20.0 PBW Quartz flour 1600

800 N/2 50.0 PBW Plastifloor® 800 N
Coating, broadcast 24.0 PBW Quartz flour 1600
5 – 8 mm 24.0 PBW Quartz sand 0.3 – 0.8 mm
2.0 PBW Pigment powder

800 N/3 80.0 PBW Plastifloor® 800 N
Joint grouting 15.0 PBW Quartz flour 1600
5.0 PBW Pigment powder

800 N/4
Waterproofing membrane 60.0 PBW Plastifloor® 800 N
40.0 PBW Plastifloor® 800 filler PET
(each formula + at a time +3-4 Vol.% hardener powder 50 W, see chart)

Processing: Recipe **800 N/1** is applied to the substrate, pre-primed with Plastifloor® 112 or 113 by using toothed rake made of metal or MMA durable plastic. Recipe **800 N/2** is pre-dispersed by a pin squeegee and evened by a sword 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 0.6 – 1.2 mm. Remove the surplus sand before applying the topcoat. Plastifloor® 800 N coatings should be sealed with Plastifloor® 528 PUMMA (clear or pigmented) or followed by another coating layer.

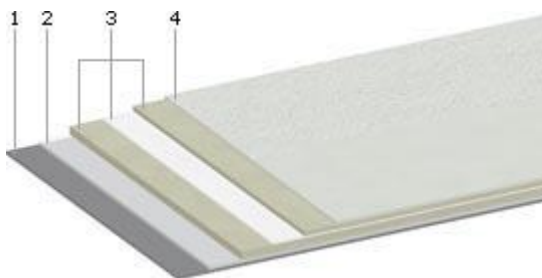
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Recipe **800 N/3** is used for casting interior and exterior pre-primed movement joints. Especially observe the fact that the casting compound will only form a compound on the joint's side flanks if this has carefully been primed with Plastifloor®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

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, then compounded by a polyester fleece and coated wet-in-wet.

System structure:



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

Pot life and curing

times depending on
Temperature:

Temperature [°F] **)	Hardener [Vol.-%] *)	Pot life [min.]	Curing time [min.]
+ 41	5.0	~ 25	~ 70
+ 50	4.0	~ 25	~ 60
+ 68	3.0	~ 20	~ 45
+ 86	2.0	~ 25	~ 50

*) Hardener quantity corresponding to Plastifloor® 800 N resin

***) Temperature indications correspond to resin, floor and air temperature

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

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Properties of Plastifloor® 800 N in polymerised condition:

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

Shore D hardness:	33	EN ISO 868
Tensile strength:	12 MPa	EN ISO 527
Elongation at maximum strength:	200%	EN ISO 527
Elongation at rupture:	402%	EN ISO 527
Modulus of elasticity:	150 MPa	EN ISO 527

Plastifloor® 800 samples tested at 4°F

Shore A hardness:	17	
Tensile strength:	21MPa	EN ISO 527
Elongation at maximum strength:	50%	EN ISO 527
Elongation at rupture:	88.9%	EN ISO 527
Modulus of elasticity:	455 MPa	EN ISO 527

Notes:

Application and grouting only on primed surfaces! On processing, pay attention to the directives in the hazardous substances ordinance and to the indications of the Federal States Committee for industrial safety and safety engineering (LASI) as well as to our safety data sheets. Ensure sufficient ventilation!

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. That does not relieve the user however to examine our data and recommendations before their use responsible for the own use. That applies also regarding the keeping of patent rights third as well as for applications and procedures, which are not expressly in writing indicated by us.