

## Acrydur™ - 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 Acrydur™ 800 N excel in high low-temperature flexibility. Acrydur™ 800 N is also used as membrane layer for Acrydur™ coatings and is thus especially appropriate for application in coolers and freezers. Furthermore Acrydur™ 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:** Acrydur™ 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)
Shelf life	In the original container, dark at < 65°F maximum 6 months
Bundle	396.83 lb / 180kg drum 55.12 lb / 25 kg, 22.05 lb / 10 kg pails

### Processing Notes:

#### Suggested formulations:

Acrydur™ 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 Acrydur™ 800 N  
*1 - 2 mm*             20 ppW Acrydur™ Quartz powder 1600

#### **800 N/2**

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

**800 N/3**  
**Joint grouting** 95 ppW Acrydur™ 800 N  
5 ppW Pigment powder

**800 N/4**  
**Waterproofing** 60 ppW Acrydur™ 800 N  
**membrane** 40 ppW Acrydur™ Quartz powder 1600

*Add 3 - 4 Vol.-% Acrydur™ Hardener 50 W to each formula (see chart).*

Processing: Recipe 800 N/1 is applied to the substrate, pre-primed with Acrydur™ 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. Acrydur™ 800 N coatings should be sealed with Acrydur™ 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 Acrydur™ 112 N.

In recipe 800 N/4 the resin Acrydur™ 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 Acrydur™ 800 N resin and filler 800 PET mix is applied to the surface that has been primed with Acrydur™ 112 N, then compounded by a polyester fleece and coated wet-in-wet.

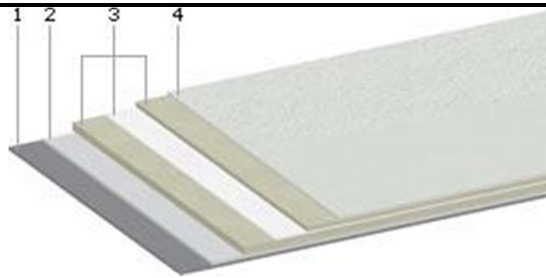
### System structure 800N/4:

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

### Pot life and curing times depending on temperature:

Further coating layers with Acrydur™ must only be applied after the previous layers have completely cured.

Temperature [°F] **)	Hardener [Vol.-%] *)	Pot life [min.]	Curing time [min.]
+ 41	5.0	~ 15	~ 70
+51	4.0	~ 15	~ 60
+68	3.0	~ 10	~ 45
+86	2.0	~ 5	~ 50

\*) Hardener quantity corresponding to Acrydur™ 800 resin

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

### Note:

**It is absolutely necessary to stir up well the resin before application.**

### Attention:

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

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**Thinner:** up to 5 Vol.-% Acrydur™ Accelerator 440

**Processing below 32°F:** Please use Acrydur™ Accelerator B101!  
Dosage according to data sheet Acrydur™ Accelerator B101

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

**Storage:** The handling-regulations for highly flammable materials apply to methacrylate resins. Acrydur™ 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.

### Industrial safety:

Ensure sufficient ventilation during work. 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.

**VbF:** A I

**GISCODE:** RMA 10

**Customs Number:** 320 820 10

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,

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