Acrydur® - 800 SP PUMMA hybrid (GB)

PLASTI CHEMIE International GmbH

Sprayable high-viscous, elasticized PU-MMA resin with high Flexibility at very low temperatures. For 2-component coatings on concrete or steel bridges.

Application:

Coatings based on Acrydur® 800 SP curing with a high flexibility even at low temperature. Acrydur® 800 SP is used as a sprayable membrane layer for Acrydur® coatings and is therefore particularly suitable for waterproofing applications on steel and concrete bridges.

Characteristics:

Acrydur® 800 SP is a viscous elasticized PU-MMA hybrid resin with high flexibility at very low temperatures. This resin can be used for waterproofing membranes and coatings on steel and concrete bridges. The resin can also be used to prepare coatings also for roofing, covering inlets and to protecting dome lights.

Characteristic of the resin as delivered:

Property	Measuring method	Approx. value
Flow time at 20°C, 6 mm cup	DIN 53 211	53-68 sec
Density D^{20}	DIN 51 757	0.95 g/cm^3
Pot life at 20°C	ca. 20 min	
Curing	45-60 min. at 20°C	
Flashpoint	10 °C	
Form of delivery	liquid, blue	
Shelf-life	In the original container, dark at 22°C maximum 6 months	
Bundles of resin	180 kg drums 25 kg, 10 kg pails	
A comp.	Activated	
B comp.	Not activaed	

Processing Notes:

Suggested formulations:

Acrydur® 800 SP can be pigmented and activated on site for spraying with a Graco XP 35.

800 SP
Membrane Layer Preparation (180 kg drums)

Add 18 kg of liquid pigment kit to A comp. on site and stir up with a drum mixer carefully for at least 2 minutes.

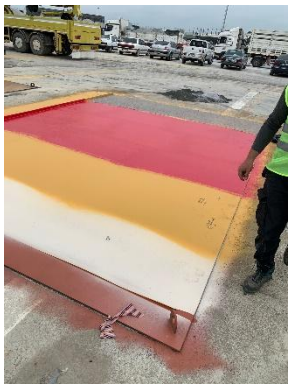
Add ~10 kg hardener powder 50 W at 20°C on site to comp. B and stir up with a drum mixer for at least 3 minutes.

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Processing: Pump A+B 1:1 with the Graco XP 35 with 0.75 mm spray nozzle onto the primed surface at a minimum of 3 kg/m² to achieve a dry film thickness 2.5 mm.



Pot life and curing times depending on temperature: Further coating layers of Acrydur® should only be applied after the previous layers have completely cured.

Temperatur [°C]	Hardener [Vol%]	Hardener [wt%]	Pot life [min]	Curing time [min]
+ 5	5.0	3.3	ca. 28	ca. 70
+ 10	4.0	2.6	ca. 25	ca. 60
+ 20	3.0	2.0	ca. 20	ca. 50
+ 30	2.5	1.6	ca. 15	ca. 45

Hardener quantity calculated on pure resin (Hardener 50 W)

Attention: Hardener levels below 2.5 vol.% may cause polymerization failure!

Thinner: Use up to 5 vol.-% Acrydur® Accelerator 440 <10°C.

Processing below 0°C: Please use Acrydur® Accelerator B101!
Dosage according to data sheet Acrydur® Accelerator B101 add the activator to component A only!

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Hints: Apply to primed sufaces only! Good ventilation during application will ensures good curing. Avoid spraying in direct sunlight!

Characteristic data of the finished coating:

Acrydur® 800 SP resin samples tested at 20°C, 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 528	200%
Elongation (rapture)	EN ISO 529	402%
E-module	EN ISO 530	150 mPa
Acrydur® 800 SP samples tested at -15°C		
Shore D Hardness	EN ISO 868	17
Tensile strength	EN ISO 527	21 mPa
Elongation (max strength)	EN ISO 528	50%
Elongation (rapture)	EN ISO 529	88.9%
E-module	EN ISO 530	455 mPa

Storage: Methacrylate resins are subject to the handling regulations of highly flammable materials. Plastifloor resin must be stored cool, at temperatures between 15 – 20° C and protected from direct sunlight. Paraffin particles may be deposited during storage. Therefore, materials must be stirred thoroughly before processing.

Industrial safety: Provide adequate ventilation during work. During processing, observe the regulations of the Hazardous Substances Ordinance, the instructions of the Federal State Committee for Occupational Safety and Safety Technology (LASI), and our safety data sheets.

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VbF:	A I
GISCODE:	RMA 10
HS-Code:	3208 2010

CE-labelling

CE	
Plasti Chemie Produktionsgesellschaft mbH • Falgardring 1 • 08223 Falkenstein • Germany	
EN 13813, SR-B2, 0-AR0, 5-IR12	
Plastifloor 800 SP PUMMA hybrid	
Synthetic resins for internal uses (Application in accordance with the newest technical information)	
Reaction to fire:	E_{fl}
Wear resistance (Abrasion Resistance):	AR 0.5
Impact resistance:	IR 12
Tensile bond strength:	B 2.0

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.

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