Acrydur™ - 800 SP PUMMA hybrid (GB)

PLASTI CHEMIE Produktionsgesellschaft mbH

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 temp. Acrydur™ 800 SP is used as sprayable membrane layer for Acrydur™ coatings and is thus especially appropriate for waterproofing applications on steel and concrete bridges.

Characteristics:

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

Characteristic data:

Delivery form	liquid, blue	
Flow time	53 - 68 sec (20°C)	DIN flow cup, 6mm
Curing	45 - 60 min (20°C)	
Flashpoint	10°C	
Shelf life	In the original container, dark at 22°C maximum 6 months	
Bundle	180 kg drums/25 kg pails	
A comp.	Activated	
B comp.	Not activated	

Processing Notes:

Suggested formulations:

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

800 SP

Membrane Layer Preparation (180 kg drums)

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

Add ~10 kg Hardener powder 50 W @ 20°C on site to comp. B and stir up with a drum mixer carefully at least 3 min.

Processing:

Plasti Chemie Produktionsgesellschaft mbH
Falgardring 1
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Email: info@plasti-chemie.de
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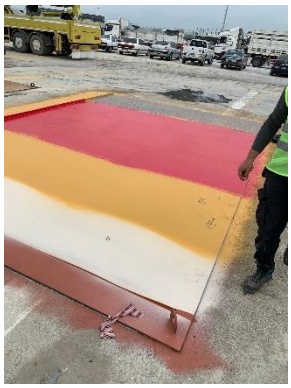
Pump A+B with the Graco XP 35 with 0,75 mm spray nozzle 1:1 onto the primed surface at least 3kg/m² to achieve 2,5 mm dry film thickness.



Pot life and curing times depending on temperature:

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

Temperature [°C]	Hardener [Vol-%] *	Pot life [min]	Curing time [min]
+ 5	~5	~ 28	~ 70
+ 10	~4	~ 25	~ 60
+ 20	~3	~ 20	~ 50
+ 30	~2,5	~ 15	~ 45

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

Attention: Hardener quantities below 2,5 Vol. % may cause polymerization failures!

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!

Hints: To be applied only on primed surfaces! Good ventilation during processing ensures good curing. Avoid spraying in direct sunlight!

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Characteristic data of finished coat:

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 527	200 %
Elongation (rapture)	EN ISO 527	402 %
E-module	EN ISO 527	150 MPa
Acrydur™ 800 SP samples tested at -15°C		
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. Acrydur™ resins must be stored cool, protected against direct sunlight and preferably at temperatures of 15 - 25 °C. 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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