

Quick-curing resin of low viscosity for concrete and cement screed crack repairs

Application Crack Sealer 114 S works as a fortifier of extremely porous substrates. It closes cracks in screeds, concrete constructions and it is applied as a filler resin for hollow screeds. The resin can be processed manually. Venting until saturation serves the stabilization of the substrate. After the treatment, the substrate has to be additionally primed with Plastifloor® 112.

Characteristics: Crack Sealer 114 S is a 100% VOC free reactive methacrylate resin of low viscosity, which cures quickly, even at low temperatures. The water absorption is between 0,7-0,8%/24 h.

Characteristic data:

Delivery form	slightly cloudy liquid	
Viscosity	10 - 15 cps	
Density	8,34 lbs/gal	(68°F)
Flashpoint	50°F	
Shore D	>80	
Elongation	4.5-5.0 %	ASTM D-638
Tensile Strength	7800-8000 psi	ASTM D-638
Compr. Strength	12,500-12,700 psi	ASTM D-638
Flex. Strength	11,900 psi	ASTM D-638
Shelf life	In the original container, dark at < 65°F minimum 6 months	

Processing Notes:

Processing: Crack Sealer 114 may be processed with hardener 50 W. The quantity of hardener must be adjusted to the according temperature of the substrate. At temperatures below +41°F, it is necessary to add Accelerator 101 (approx. 0.5% at 32°F up to 3% at 22°F), while maintaining the 6 vol.-% hardener powder 50 W.

After the mixing in of the hardener powder, Plastifloor® 114 is evenly distributed with a roller or a squeegee onto the substrate (venting). Strongly absorbing substrates have to be vented moistly prior to curing until the pores close.

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Suggested formulation:

1 gal primer 114 S
4 oz hardener 50 W (at 68°F substrate temperature)

Material consumption:

70 - 100 ft²/gal per work step and absorptivity of the substrate.

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]
32 - 41	6	~ 11	~ 30
41 - 50	5	~ 8	~ 30
50 - 59	4	~ 8	~ 30
59 - 68	3	~ 7	~ 30
68 - 77	2	~ 8	~ 25
77 - 86	1	~ 6.5	~ 20

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

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

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.

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