

DURELASTIC – surface solutions for composites Styrene-free gelcoats

Our new gelcoat is structured from a monomer-free UP resin with special low viscosity and VOC-free reactive monomers.



DURELASTIC – surface solutions for composites

Styrene-free gel coats

The functional principle As a new, innovative idea, the vision of developing a styrene-free gelcoat was realised by FreiLacke. It should be processable with the usual peroxides and the common processing parameters. It should also be compatible with the familiar reinforcement systems based on UP.

This new gelcoat – structured from a monomer-free UP resin with special low viscosity and VOC-free reactive monomers – has several advantages to offer. As the styrene content is almost 0 %, no emissions of problematic VOC or MAK substances can be expected.

Notes on the 6th ATP designation of styrene The labelling requirement of preparations containing styrene will probably change on 1st January, 2016: From 1 % styrene, the designation must probably be changed to H373: Can damage organs if exposed for prolonged periods or repeatedly

An application for a patent has been submitted.

Particularly noteworthy is the very good light and weather resistance, which roughly correspond to a standard PUR coating.

The result

	Standard ISO NPG	Result
		Styrene-free
dE after 500 h QUV-B	> 5	<2.0
Residual gloss after 500 h QUV-B	1 %	approx. 40
dE after 1000 h WOM	1.0	0.3
Residual gloss after 1000 h WOM	approx. 80 %	approx. 90 %



Many other applications are also possible. Please do not hesitate to **contact us**.

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