

INFORMATION LEAFLET

TRAPYLEN® for UV- application



100%-Systems:

The liquid „100%-Systems“ of the TRAPYLEN® UV- series are designed as adhesion- additives to be incorporated into coatings and do not contain photo initiators. Standard products are TRAPYLEN®

- 5550 UV
- 5590 UV
- 5650 UV
- 5700 UV
- 5800 UV

Recommended dosage of TRAPYLEN®:

- 4...10 %

At higher concentration the soft and flexible TRAPYLEN®- film has an influence to the film properties of the final product.

TRAPYLEN® can be blended with acrylic based oligomers.

Compatibility and storage stability of mixtures with oligomers and reactive diluents needs to be controlled.

Cross- linking:

- approximately 120 W/cm² at film thickness of 1...3 g/m² and coating speed of 50 m/min

The cross- linking properties at the „100%-Systems“ depend strongly on the radiation energy and the quantity and type of the photo initiator.

Recommended photo initiators:

- Irgacure 500
- Irgacure 819
- Irgacure 2959

The recommended dosage is in range of 0,1...4,0 %, depending on the film thickness and the radiation energy.

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Compatibility table of the TRAPYLEN® UV-curable 100%-systems

Primer	Reaktive diluent	Compatibility
<u>A) TRAPYLEN® 5500 UV</u>		
50 %	50 % Beta- CEA	u
50 %	50 % EBECRYL 11	u
50 %	50 % ODA	g
50 %	50 % 2-PEA	o
50 %	50 % SR-531	g
10 %	90 % SR-531	g
50 %	50 % SR-531	g
<u>B) TRAPYLEN® 5550 UV</u>		
45 %	50 % Beta- CEA + 5 % AAEA	u
45 %	50 % TMPTMA + 5 % AAEA	g
45 %	50 % Ebecryl 109 + 5 % AAEA	u
45 %	50 % 2-PEA + 5 % AAEA	u
65 %	30 % 2-PEA + 5 % AAEA	o
45 %	50 % EBECRYL 11 + 5 % AAEA	u
50 %	50 % Beta- CEA	u
50 %	50 % EBECRYL 11	u
50 %	50 % ODA	g
50 %	50 % 2-PEA	o

Legende:

sg = very well compatible

g = well compatible

o = sufficiently compatible

u = not compatible

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C) TRAPYLEN® 5590 UV

70%	30 % TPGDA	g
70%	30 % TMPTA	g
70%	30 % TBCH	g
70 %	30 % SR 395	g
70 %	30 % SR 306	g
70%	30 % POEA	g
70%	30 % Photomer 4846	u
70%	30 % Photomer 4003	u
70%	30 % Miramer M 4004	u
70%	30 % Miramer M 170	g
70%	30 % Miramer M 130	g
70%	30 % HDDA	g
70%	30 % Genomer 4215	g
70%	30 % Genomer 4188	u
70 %	30 % ECX 4114	g
70%	30 % AgiSyn 2895	g
70%	30 % AgiSyn 2853	g
70%	30 % AgiSyn 2839	g
70%	30 % 2-PEA	g
50 %	50 % ECX 6025	u
50 %	50 % ECX 4114	g
50 %	50 % Photomer 4846	u
50 %	50 % Laurylacrylat 1214	g
50 %	50 % Photomer 4003	g
50 %	50 % POEA	g
50 %	50 % TBCH	g
50 %	50 % 2-PEA	u
50 %	50 % Miramer M 170	g
50 %	50 % Miramer M 130	g
50 %	50 % SR 306	g
50 %	50 % HDDA	g
50 %	50 % AgiSyn 2839	g
50 %	50 % AgiSyn 2853	g
50 %	50 % AgiSyn 2895	g
50 %	50 % ODA	g
50 %	50 % Cyclohexylmethacrylat	g

Legende:

sg = very well compatible

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