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# Additives for Automotive Coating and Car Refinish

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## UNIQ® FOAM Defoamers

Product	Silicone	Polymer / Non-silicone	Main solvent	Water based	Solvent based	Characteristic	Addition level (%)	Putty	Primer / surfacer	Top coat / one coat	Base coat	Pigment concentrates	Clear coat
UNIQ®FOAM 131 S		•	PMA		•	Defoamer for clear coatings and pigmented systems, especially against micro-foam and popping. Excellent clarity and transparency	0.1-1.0			•••	•••		••
UNIQ®FOAM 132 S		•	PMA		•	Defoamer for clear coatings and pigmented systems, especially against micro-foam and popping. Excellent clarity and transparency	0.1-1.0			••	••		•••
UNIQ®FOAM 152 S		•	-		•	Defoamer for primer and high solid systems, strong micro foam destroying properties	0.1-1.0		•••	••	••		
UNIQ®FOAM 180 W		•	Butyl glycol	•		Especially for OEM/refinish basecoats to improve less sensitivity for the film thickness	0.3-3.0		•	••	•••		••
UNIQ®FOAM 245 S	•		DIBK		•	Best defoamer for spraying, roller, brushing and curtain coating applications, good working for against micro and macro-foam	0.1-0.7		•••	•••			•
UNIQ®FOAM 265 W	•		water	•		Strong defoamer for grinding conditions	0.1 ~ 0.3					•••	
UNIQ®FOAM 280 W	•		—	•	•	Very high compatibility and excellent defoaming performances	0.1-1.5			•••	••	•	••
UNIQ®FOAM 295 W	•		—	•	•	Especially suited for primers against micro-foam	0.1-1.0		•••	•••	••	••	
UNIQ®FOAM P-555		•	-		•	Defoamer for UPE car putty and gelcoats	0.1-1.0	•••					

## UNIQ® SPERSE Dispersing Agents

Product	Principal component	Active (%)	Main solvent	Amine value mgKOH/g	Acid value mgKOH/g	Water based	Solvent based	Characteristic	Putty	Primer/surfacer	Top coat / one coat	Base coat	Pigment concentrates
UNIQ®SPERSE 560 S	PU Dispersant	30	Butyl Acetate PMA / xylene	8	—		•	High performance dispersing agent for refinish/automotive. High transparency.			•••	••	••
UNIQ®SPERSE 580 U	Structured Polymer	100	—	52		•	•	High performance dispersant, suited for resin free, recommended for the dispersion of carbon black giving high jetness and high performance organic pigments, Lik Pb15:2 and PV19			•••	•••	•••
UNIQ®SPERSE 605 S	Polyester dispersant	40	Butyl Acetate	19	8		•	Excellent dispersing agent for high jetness, high transparent pigment, automotive/refinish and coil			•••	•••	•••
UNIQ®SPERSE 615 S	Polyester dispersant	40	Butyl Acetate	19	8		•	Excellent dispersing agent for high performance pigments			•••	•••	•••
UNIQ®SPERSE 630 U	Structured Ploymer	100	—	40		•	•	High performance dispersant, suited for resin free, recommended for high performance organic pigments, especially where high transparency is required,			•••	•••	•••
UNIQ®SPERSE 670 U	Structured Polymer	100	—	70	42	•	•	High performance dispersant, suited for resin free, especially for transparent iron oxides and matting agents giving low viscosity			•••	•••	•••
UNIQ®SPERSE 680 U	Structured Polymer	100	—	65		•	•	Universal high performance dispersant, suited for resin free, recommended for the dispersion of carbon black and high performance organic pigments			•••	•••	•••
UNIQ®SPERSE 690 W	Block dispersant	40	Water	15	15	•		All-round dispersant agent for general purposefor water based systems. High transparency and performances			•••	•••	•••
UNIQ®SPERSE 730 U	Modified Acrylic Polymer	100	—	—	60	•	•	Excellent wetting and dispersing agents for TiO2 and fillers for primers and high performance applications	•	•••	•••	•••	••
UNIQ®SPERSE 765 S	Unsaturated Carboxylic acid	52	Alkyl benzene DIBK	—	120		•	Anti-flooding and anti-floating agent. Can be post added		••		••	
UNIQ®SPERSE P-141	Modified Acrylic Polymer	100	—	—	68	•	•	Excellent wetting and dispersing agents for TiO2 for high performance applications	•••				

## UNIQ® FLOW Wetting Agents And Surface Modifiers

Product	Silicone	Acrylic	Fluor modified polymer	Active (%)	Main solvent	Surface tension reduction	Water based	Solvent based	Addition amount (%)	Characteristic	Wetta-bility	anti-crater	Improve leveling	Improve slip	Scratch prevention	Defoaming properties
UNIQ®FLOW 350 W			•	100	—	••	•	•	0.1-0.5	Excellent wetting, defoaming, anti-crater and leveling performances	••	••	••			••
UNIQ®FLOW 361 S			•	100	—	•••		•	0.01-0.5	Improved version of 360S with very high compatibility	•••	•••	•••			
UNIQ®FLOW 376 S			•	70	PMA	•		•	0.5-1.0	Improved version of 375S, faster leveling and excellent compatibility	•	•	•••			
UNIQ®FLOW 384S		•		70	PMA	•		•	0.5-1.0	Leveling aganet with strong micro foam destroying properties			•			•••
UNIQ®FLOW 386 S		•		52	PMA	0		•	0.5-1.5	All-round fast leveling agent			•••			
UNIQ®FLOW 392 S		•		52	PMA	0		•	0.2-1.0	Anti-popping and anti-pinholing agent especially for PU systems			•			••
UNIQ®FLOW 415 S	•			15	Butyl acetate	••		•	0.5-1.0	Silicone leveling agent with slip properties	••	•	•••	••	•••	
UNIQ®FLOW 488 U	•			100	—	•••	•	•	0.1-1.0	Excelent wetting agent with very low foam stabilization	•••	•••	••			
UNIQ®FLOW 493 U	•			100	—	•••	•	•	0.05-0.3	Silicone leveling agent with very good slip	••	••	•••	•••	•••	
UNIQ®FLOW 495 U	•			100	—	•••	•	•	0.05-0.3	Silicone leveling agent with excellent handfeeling	••	••	•••	•••	•••	•

## UNIQ® VIS Rheology Control Agents And Conductivity Agents

Product	Principal Component	Active ingredient (%)	Main solvent	Water based	Solvent based	Characteristic	St addition amount (%)	Top coat / one coat	Base coat	pigment concentrate	Clear coat
UNIQ®VIS 840 W		90	water	•		Humectant, protecting for drying out pigment pastes	3.0-10.0			•	
UNIQ®VIS 880 S	Quartinary ammonium compound	54	Iso-butanol		•	Conductivity agent	0.1-2.0	•	•		•

## UNIQ® LIGHT Light Stabilizers

Product	Principal Component	Active ingredients(%)	Water based	Solvent based	Characteristic	Addition amount (%)	Top coat / one coat	Clear coat
UNIQ®LIGHT 992	HALS	100	o	•	Cost effective HALS	0.5-2.0	•	•
UNIQ®LIGHT 930	Benzotriazole	100	o	•	General purpose use Light Stabilizer	1.0-3.0	•	•
UNIQ®LIGHT 940	Triazine	100		•	High performance UV absorber suited for OEM and refinish	1.0-3.0		•
UNIQ®LIGHT 951	Blend	100		•	Blend light stabilizer	1.0-3.0	•	•
UNIQ®LIGHT 960	Blend	100		•	Blend light stabilizer	1.0-3.0	•	•