

Adhesives and sealants



	Defoamer	Substrate	Rheology		viscosity	viscosity wetting and dispersi	
		wetting	thixotropic	anti-sagging			
Polyurethane	245S	493U	P-904		P-141	P-120	
	P-555	495U	P-405		P-134	P-144	
Ероху	P-570	493U	P-904		P-134	P-120	P-160
	P-555	495U	P-405		P-185	P-144	
	P-571						
Acrylic		493U	P-904		P-141	P-120	P-160
		495U	P-405			P-144	
Water based	280W	488U			Inorganic	•	
	295W	487U			P-130 / P-193		
	LP2500				Organic & Bla	ck	
	LP2507				P-135		
UV systems	P-555	495U			Inorganic		
	2455	477U			P-130	P-191	P-193
		488U			Organic & Bla	<u>ck</u>	
					P-134/P-133	P-185	P-135

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Additives for Ambient Curing, Composites and PVC plastisols.



Air release

PRODUCTS	UPR	PUR	Ероху	PVC	Features
UNIQ [®] FOAM P-509	•		•	•	Strong anti-foam and air-release agent especially suitable for ambient-curing plastic systems. Especially suitable for unsaturated polyesters and epoxy based systems.
UNIQ [®] FOAM P-540			•		Silicone-free anti-foam and air-release agent and furthermore helps to improve the leveling and avoids pinholing or popping and improves viber wetting. It's suitable for unsaturated polyester systems, gel coats and cast resins. It is also recommended for pultrusion applications with acrylic, unsaturated polyester and vinyl ester resins.
UNIQ [®] FOAM P-555	•	•	•	•	Silicone free strong anti-foam and air-release agent especially suitable for ambient- curing plastic systems, adhesives and sealants. Especially suitable for unsaturated polyesters.
UNIQ [®] FOAM P-570		•	•		Silicone containing strong anti-foam and air-release agent especially suitable for ambient-curing plastic systems, adhesives and sealants and coating industry. Especially suitable for epoxy based systems
UNIQ [®] FOAM P-571	•	•	•	•	Silicone free strong anti-foam and air-release agent especially suitable for ambient- curing plastic systems, adhesives and sealants and coating industry. Especially suitable for epoxy based systems, odour free and silicone free version of P-570.
UNIQ [®] FOAM P-575		•	•		Strong anti-foam and air-release agent especially suitable for ambient-curing plastic systems, adhesives and sealants and coating industry, especially for epoxy and PU based resin systems. The additive furthermore helps to improve the leveling and avoids pinholing or popping.
UNIQ [®] FOAM P-595	•			•	Strong anti-foam and air-release agent especially suitable for ambient-curing plastic systems. Especially suitable for unsaturated polyesters and epoxy based systems.
UNIQ [®] FOAM 245S		•	•		Recommended for roller, brush and conventional spray application, very suitable also for systems ranging from low polar to high polar with strong working in against micro-foam. The defoamer is highly effective for solvent based and solvent free coating systems
UNIQ [®] FOAM 152 S		•			Strong defoamer, silicone free, can be used for all solvent borne coating systems, especially suitable for solvent free epoxy and solvent free UV system. The additive has an immediate foam-destroying effect with very strong deaeration and does not have influence on the intercoat adhesion.

Leveling/Substrate wetting

PRODUCTS	ACTIVE %	UPR	PUR	Ероху	PVC	Features
UNIQ [®] FLOW P-304	100	•	•	•	•	Acrylic leveling agent for solvent based and solvent free systems. It's very suitable for gel coats that are base on unsaturated polyesters, epoxides and polyurethanes. The product shows excellent defocaming and leveling performances.
UNIQ [®] FLOW 415 S	15	•	•			Highly effective silicone additive, provides a strong reduction of surface tension. Offers good wetting of critical substrates. In pigmented systems it can prevent the formation of Bénard cells and improve leveling.
UNIQ [®] FLOW 361 S	100	•	•	•	•	Silicone free and can offer strong reduction of surface tension, improves wetting effect and has strong anti-crater performances. Meanwhile, it shows the good performance of fast wetting and leveling on difficult corners to achieve good film build up.
UNIQ [®] FLOW 495 U	100	•	•	•		Modified polyether polysiloxane leveling agents. The additive gives strong surface tension reduction properties in coatings. The substrate wetting is improved and therefore can also act as an anti-crater agent. Minimized foam stabilization
UNIQ [®] FLOW 386 S	50			•	•	Acrylic leveling agent for solvent based coating systems showing excellent compatibility and good leveling performances.
UNIQ [°] FLOW 375 S	70			•		Modified acrylic leveling agent to be used in solvent based coating systems showing some defoaming performances.

Wetting and Dispering Additives

PRODUCTS	ACTIVE %	UPR	PUR	Ероху	P۱
UNIQ [®] SPERSE P-114	51	•		•	
UNIQ [®] SPERSE P-120	80	•	•	•	
UNIQ [®] SPERSE P-134	100			•	
UNIQ [®] SPERSE P-135	100		•	•	
UNIQ [®] SPERSE P-136	45	•	•		
UNIQ [®] SPERSE P-138	30	•	•		
UNIQ [®] SPERSE P-141	50	•	•	•	
UNIQ [®] SPERSE P-144	50	•	•	•	
UNIQ [®] SPERSE P-145	100	•	•	•	
UNIQ [®] SPERSE P-160	50	•	•	•	
UNIQ [®] SPERSE P-185	100	•	•	•	
UNIQ [®] SPERSE P-190	100	•	•	•	
UNIQ [®] SPERSE P-191	100	•		•	
UNIQ [®] SPERSE P-193	100	•	•	•	•
UNIQ [®] SPERSE P-199	100	•		•	
UNIQ [®] SPERSE P-904	50	•	•	•	
UNIQ [®] SPERSE P-905	100	•	•	•	
UNIQ [®] SPERSE P-405	100	•	•	•	



Additives recommendation

Features
Wetting and dispersing additive for filled unsaturated polyester, epoxy systems eg calcium carbonate and ATH. Strong viscosities reduction.
Wetting and dispersing agent to reduce viscosity and prevents fillers from settling in ambient curing resins and adhesives as well for polyester molding compounds
Solvent-free wetting and dispersing additive, very suitable for solvent-borne and solvent-free adhesives, PVC plastisol, ambient curing resin systems, and for the production of color master batches for thermoplastics. Particularly recommended for acidic carbon black pigments. Excellent anti-separation additive for UPR and thermoplastic resins.
Solvent-free wetting and dispersing additive, very suitable for solvent-borne and solvent-free adhesives, PVC plastisol, ambient curing resin systems, and for the production of liquid color master batches for thermoplastics.
Wetting and dispersing additive for SMC/BMC and pultrusion to homogenize and stabilize the system, and to increase the color homogeneity in molding compounds. Improved fiber wetting and therefore optimized properties. Additive to prevent phase separation in PS-UP filled molding compounds.
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Wetting and dispersing additive for amine-accelerated UP, EP and, PUR systems a nd adhesives to reduce the viscosity in mineral-filled systems. Strong viscosities reduction.
Wetting and dispersing additive for filled unsaturated ployester resins as well PU, epoxy and acrylic to reduce viscosity and prevent settling
Processing additive with mold release properties for low-shrink SMC and BMC. The zinc stearate that is usually used as a mold release agent is completely replaced by the additive, which can simplify raw material handling. The most important property is the anti-separation of the LS-SMC/BMC compounds and thus cobwebbing is reduced.
wetting and dispersing additive in unsaturated resin systems and adhesives. The additive prevents the flooding/floating and settling of pigments and fillers in epoxy and VE/UP-based laminates. Reduction in the flooding/floating of colored pigments in gel coats.
Solvent-free wetting and dispersing additive, very suitable for solvent-borne and solvent-free adhesives, PVC plastisols, ambient curing resin systems, and for the production of color masterbatches for thermoplastics. Particularly recommended for organic pigments, inorganic pigments, carbon black and co-grinding processes.
Wetting and dispersing additive for filled, unsaturated polyester systems and epoxy systems, also suited for gelcoats to avoid flooding and floating of TiO2
wetting and dispersing additive for filled unsaturated polyester. The dispersant is especially suitable for inorganic pigments, filler pigments and ATH. Strong viscosities reduction.
wetting and dispersing additive for filled unsaturated polyester, epoxy systems. The dispersant is especially suitable for inorganic pigments, filler pigments and ATH. Strong viscosities reduction.
wetting and dispersing additive for filled unsaturated polyester eg calcium carbonate and ATH. Strong viscosities reduction.
Solvent-free wetting and dispersing additive for UPR, epoxy- and vinyl-based systems. Helps reduction of flooding and floating of colored pigments eg in gelcoats. Reinforce the rheological effectiveness of pyrogenic silica to increase and stabilize the thixotropic behavior.
Solvent-free wetting and dispersing additive for UPR, epoxy- and vinyl-based systems. Helps reduction of flooding and floating of colored pigments eg in gelcoats. Reinforce the rheological effectiveness of pyrogenic silica to increase and stabilize the thixotropic behavior.
liquid rheology additive for plastic applications such as vinyl ester and epoxy res

		Dispersants	Wetting &	Defoamers	
	Inorganic	Organic	Co-grinding / post add	Leveling	
		UNIQSPERSE		UNIQFLOW	UNIQFOAM
Gelcoat	P-190	P-185	P-160	P-304	P-555
	a statistical second	And the second second		415S	P-570
				495U	P-571
UPR - putties	P-144			P-304	P-555
	P-141				P-571
	P-120				
Composites	P-130	P-185	P-134	P-304	P-555
ероху	P-190	P-134	P-160	415S	P-570
	P-193	P-135	P-185	495U	P-571

	Wetting and dispersing agents	Processing agents	Anti-seperation agents	Fiber wetting agents	Defoamers
		UNIQFOAM			
SMC/BMC	P-190	P-145	P-134	P-134	P-540
	P-191	P-904	P-136	P-138	P-555
	P-193	P-405	P-138		P-571

	TiO ₂	Inorganic	Organic	Carbon Black	
		pigments	pigments	Acidic / Neutral	Basic
			UNIQSPERSE		
Thermoplastics -	P-950	P-191	P-133	P-134	P-133
liquid	P-191	P-185	P-134	P-135	P-135
masterbatches	P-193	P-130	P-135	1.000	
		P-193	P-137		

	TiO ₂	Inorganic pigments	Organic pigments	Carbon Black	Defoamers
		UNIQFOAM			
PVC plastisols	P-950	P-191	P-134	P-134	P-555
	P-191	P-193	P-135	P-135	P-509
	P-193		605S / 615S		P-595
					P-571