



# **PRODUCT BROCHURE**

Performance additives for paints and coatings, ink, inkjet and composite market



## **Company Introduction**

**UNIDCHEM** is a privately owned specialty additive company with holding company in the UK founded in 2010.

As the premier leader in manufacturing and development of high-performance additives, the global network of **UNIDCHEM** covers many countries in Europe, America and Asia with regional headquarters in Germany, China and USA.

The regional headquarters consisting of a dedicated team of professionals with decennia of experience in the development, application know-how, production manufacturing, technical service and sales of additives for coatings, inks, inkjet and ambient curing systems and PVC plastisols industry.

Our manufacturing and development of innovative high performance specialty additives are based in Germany and China. Global purchasing of raw materials is taking place from Germany to guarantee the consistency of our products.

Our technology platform contains of many technologies: free radical polymerization, poly-addition reactions, polycondensation reactions, hydrosililation and special blending technologies.

From our global technical service lab network, we offering our customers the best solutions of product recommendations. We are committed creating added value and improving our customers' formulations with our complete range of specialty additives offering them the right solution.

**UNIQ**<sup>®</sup>**FOAM** for defoamers and air release agents, **UNIQ**<sup>®</sup>**FLOW** for wetting and leveling agents, **UNIQ**<sup>®</sup>**SPERSE** and **UNIQ**<sup>®</sup>**JET** for wetting and dispersing agents, **UNIQ**<sup>®</sup>**LIGHT** for HALS and light stabilizers and **UNIQ**<sup>®</sup>**VIS** for specialties have achieved worldwide recognition for their performance, quality and technical innovation.

We continue to bring new technologies and products to the markets and to work collaboratively with our customers to build on our technical expertise.

Special attention is given to our development of new products. To be innovative, our products needs to give an added value to our customers. Therefore, we continuous developing new products with improved features. That our R&D is successful is proven by the sales of new product developed in the last years. New in-house developed technologies have nowadays about 50% contributions to our global sales, what should be further increase in the coming years.

We want to be your solution partner in specialty additives by strengthening your market position through technology and service, therefore our slogan is 'Customized Solutions':

- Creative Solutions to our Customers by finding solutions and sharing technical experiences through our corporation.
- Creative Solutions to our employees by offering them career opportunities and a safe and healthy working environment.
- Creative Solutions for the future and our environment by making use of environmentally friendly raw materials and less or/and non-polluting products serving the new upcoming technologies.

Our goal is to be the fastest growing and most competitive supplier of specialty additives in this market by offering the best service, supply and samples by our communication, corporation and commitment to you.















### **Our History**



#### FOUNDED IN 2010 UNIQCHEM UK founded

UNIQCHEM OK founded UNIQCHEM Shanghai Co., Ltd UNIQCHEM GmbH founded



### 2015

UNIQCHEM starts R&D in Shanghai and production in Hangzhou



### 2019

UNIQCHEM opens new Asia Pacific Technical Center in Shanghai UNIQCHEM receives TUV SUD QEHS ISO certification: 9001, 14001 and 45001



### 2021

UNIQCHEM awarded as "professional, proficient, special, new" enterprise certification in Shanghai UNIQCHEM China achieves again high-tech enterprise qualification from Chinese goverment



### 2018

2012

UNIQCHEM GmbH moves office to Nordhorn Germany and upgrade lab facilities UNIQCHEM China achieves high-tech enterprice qualification from Chinese goverment

UNIQCHEM set up lab and offices in China



### 2020

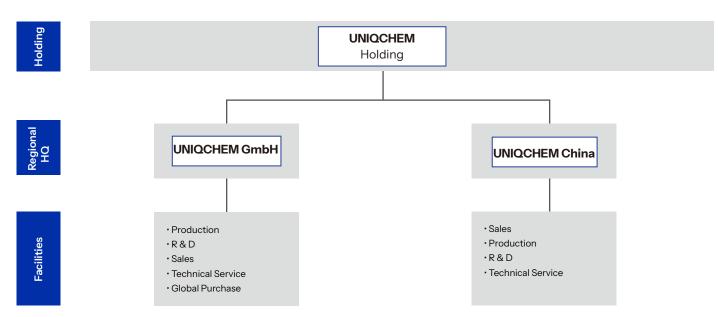
UNIQCHEM China achieves once again high-tech enterprice qualification from Chinese goverment

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2022

UNIQCHEM opens second production location in Anhui

## **Company structure**





# **Global organisation**



# **Product lines and nomenclature**

	Brandname	Coatings	Ink	Plastic
Defoamers / Air release additives	UNIQ <sup>®</sup> FOAM	100 - 200	7000	P-5xx
Flow and wetting additives	UNIQ <sup>®</sup> FLOW	300 - 400	6000	P-3xx
Wetting and Dispersing additives	UNIQ <sup>®</sup> SPERSE UNIQ <sup>®</sup> JET	500 - 600 - 700	9000 9000	P-1xx - P-9xx
Rheology modifiers	UNIQ <sup>®</sup> VIS	800		
Light stabilizers	UNIQ <sup>®</sup> LIGHT	900		



S = Solvent based W = Water borne U = Universal

# Additives for Paint and Coatings



UNIQ	<sup>B</sup> CO	

	DOSAGE %	PROPERTIES / APPLICATION	WATER BASED	SOLVENT BASED	SOLVENT FREE
Non silicone defoamers					
UNIQ <sup>®</sup> FOAM 120 S	0.1-1.0	Strong defoamer preventing formation of foam during manufactering and filling. Works well against macro foam, can cause haze in glossy clear coatings.			
UNIQ <sup>®</sup> FOAM 130 S	0.1-1.0	Strong defoamer showing superior de-aerting effects, very suitable for UPE, heavy duty, refinish, coil and clear coating.			
UNIQ <sup>®</sup> FOAM 131 S	0.1-1.0	Strong defoamer, gives good air-release and macro defoaming properties. very suitable for pigment coating and spraying applications.			
UNIQ <sup>®</sup> FOAM 132 S	0.1-1.0	Strong defoamer working against micro- and macro-foam, very suitable for clear coating, strong against pinholing and popping in 2C PU , high clarity.			
UNIQ. <sup>®</sup> FOAM 150 S	0.1-1.0	is a strong defoamer especially suitable for solvent free epoxy, solvent free PU and UV system. 100% version of 132S			
UNIQ <sup>®</sup> FOAM 152 S	0.1-1.0	Suitable for solvent free epoxy, solvent free PU and UV system. Good working against micro- and macro-foam, improves leveling			
UNIQ <sup>®</sup> FOAM 155 S	0.1-1.0	Suitable for solvent free systems with rapid deaeration and defoaming, promotes leveling. May cause haze in clear coats.			
UNIQ <sup>®</sup> FOAM 158 S	0.1-1.0	Suitable for solvent- and solvent free and UV systems with excellent compatibilty, suited for pigment and clear coatings.			
UNIQ. <sup>®</sup> FOAM 170 S	0.1-1.0	Suited for UPE, HS coatings like epoxy and 2K PU			
UNIQ <sup>®</sup> FOAM 175 S	0.1-1.0	Suited for OPV, UV and high gloss coatings systems			
UNIQ <sup>®</sup> FOAM 180 W	0.3-3.0	Prevents surface defects and improves levelling avoiding pinholing and popping			
UNIQ <sup>®</sup> FOAM 182 W	0.3-3.0	Prevents surface defects and improves levelling avoiding pinholing and popping			
UNIQ <sup>®</sup> FOAM LP2507	0.1-1.0	Suited for WB systems and pigment concentrates, working strong against macro-foam			
UNIQ <sup>®</sup> FOAM LP2537	0.3-1.0	Mineral oil based emulsified WB decorative coatings defoamer, silicone free			
UNIQ <sup>®</sup> FOAM LP2599	0.1-1.0	Mineral oil free defoamer for decorative- and industrial market. Low dosage requirement, strong working			
Silicone containing defo	amers				
UNIQ <sup>®</sup> FOAM 235 S	0.1-0.6	All round defoamer for spray, rolling, brushing and curtain coatings			
UNIQ <sup>®</sup> FOAM 238 S	0.1-0.7	Suited for top coating, clear coats, excellent compatibilty			
UNIQ <sup>®</sup> FOAM 246 S	0.1-0.6	All round defoamer for spray, rolling, brushing and curtain coatings, with strong micro-foam destroying properties.			
UNIQ <sup>®</sup> FOAM 272 S	0.1-1.0	Suited for HS epoxy and 2K PU coating system			
UNIQ <sup>®</sup> FOAM 280 W	0.1-1.0	Defoamer for high gloss coating, excellent compatibility			
UNIQ.*FOAM 290 W	0.1-1.0	Strong defoamer for grinding processes and topcoats, excellent compatibility			
UNIQ <sup>®</sup> FOAM 292 W	0.1-1.0	Suited for grinding and post addition topcoats, elimination micro- and macro foam			

Strong high shear stable defoamer for grinding processes, strong working vs micro-foam

clear transparent silicone defoamer, strong high shear stable defoamer for grinding processes and high shear applications and high shear force application

Strong emulsified defoamer for topcoats, clearcoats, airless and airmix spraying applications, very wel suited for wb ink applications. Easy to incorporate.

Economical silicone containing WB defoamer for architectural applications

UNIQ®FOAM 295 W

UNIQ<sup>®</sup>FOAM LP2500

UNIQ<sup>®</sup>FOAM LP2510

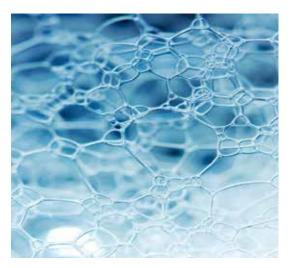
UNIQ<sup>®</sup>FOAM LP2560

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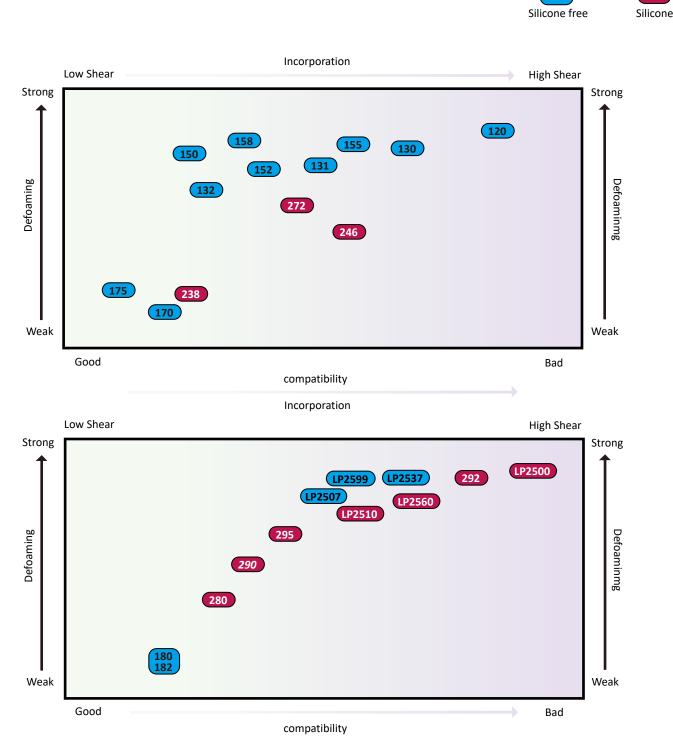
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In industrial processes, foam can cause serious problems like:

- · They cause defects on surface coatings.
- They prevent the efficient filling of containers.

To avoid these issues, the need for a defoamer or air-release agents is necessary. **UNIDCHEM** offers these additives under the brand **UNID**<sup>®</sup>**FOAM**. A defoamer or an anti-foaming agent is a chemical additive that reduces and hinders the formation of foam in industrial process liquids or is added to break a formed foam already. We can make a distinction between macro- and micro-foam. Macro-foam is often formed at the surface of the coating and micro-foam is entrapment of small air bubbles, they are not able to raise fast enough to the surface. For micro foam you need a so-called air release agent to coagulate the micro bubbles to bigger air bubbles so they can raise faster to the surface to be destroyed.





# UNIQ<sup>®</sup>FLOW

	ACTIVE CONTENT	DOSAGE %	PROPERTIES / APPLICATION	WATER BASED	SOLVENT BASED	SOLVENT FREE
Non silicone we	etting a	nd levelir	ng agents			
UNIQ <sup>®</sup> FLOW 350 W	100	0.1-1.0	Excellent wetting, anti-crater and leveling agent with defoaming properties Fluor containing			
UNIQ <sup>®</sup> FLOW 352 W	100	0.1-1.0	Silicone free and fluorine free wetting and leveling additives with strong defoaming properties. Gives strong surface tension reduction properties.			
UNIQ®FLOW 361 S	100	0.05-0.5	Anti-crater and wetting for high gloss coating, causing no haze. Excellent wetting on sharp corners avoiding fat-edge. Fluor containing			
UNIQ <sup>®</sup> FLOW 372 S	60	0.1-1.0	All round levelling agent, more polar, no haze in clear. Fluor containing			
UNIQ <sup>®</sup> FLOW 375 S	70	0.1-1.0	All round levelling agent with defoaming performances. Fluor containing			
UNIQ®FLOW 376 S	70	0.1-1.0	Suitable for high gloss clear and pigmented coating, fast leveling and high clarity improves DOI. Fluor containing			
UNIQ <sup>®</sup> FLOW 380 S	100	0.1-1.0	Acrylate leveling agent with some deaeration properties			
UNIQ <sup>®</sup> FLOW 384 S	100	0.1-1.0	Acrylate leveling agent with strong deaeration/air-release performances			
UNIQ <sup>®</sup> FLOW 386 S	50	0.1-1.0	Acrylate leveling agent with good compatibility and leveling suited for all solvent based applications including clear coats			
UNIQ <sup>®</sup> FLOW 387U	100	0.1-1.0	Especially suited for increasing surface energy to improve the interlayer adhesion. Excellent compatibility.			
UNIQ®FLOW 389 S	100	0.1-1.0	100% version of 386S			
UNIQ <sup>®</sup> FLOW 390 S	100	0.1-1.0	Cost effective acrylate leveling agent, well suited for baking systems, excellent heat stability, showing defoarning properties			
UNIQ <sup>®</sup> FLOW 392 S	50	0.1-1.0	Leveling agent with anti popping and deaeration propertiessuited for clear and pigmented systems			
UNIQ <sup>®</sup> FLOW 393 S	50	0.1-1.5	polyester based with excellent compatibility, improved DOI, shows defoaming properties			
Silicone contai	ning we	tting and	d leveling agents			
UNIQ <sup>®</sup> FLOW 400 U	50	0.1-1.0	All round silicone leveling agent			
UNIQ <sup>®</sup> FLOW 415 S	15	0.1-1.0	Very suited to improve short wave leveling with good slip performance. Helps avoiding Bernard cell formation.			
UNIQ <sup>®</sup> FLOW 430 S	100	0.1-1.0	Levelling agent with strong air-release properties			
UNIQ <sup>®</sup> FLOW 437 S	NA	1.0-5.0	Prevent pinholes, needles, blisters			
UNIQ <sup>®</sup> FLOW 440 U	50	0.1-0.3	Anti-crater and high slip, fast wetting and leveling			
UNIQ <sup>®</sup> FLOW 470 U	100	0.1-1.0	Very good leveling in UV coating with strong tape release			
UNIQ <sup>®</sup> FLOW 477 U	100	0.1-1.0	Very fast wetting and leveling, increases slip and very suitabe for UV coating and OPV.			
UNIQ <sup>®</sup> FLOW 483 U	100	0.1-1.0	Excellent substrate wetting and anti-crater performance, very low foam stabilization			
UNIQ <sup>®</sup> FLOW 487 U	100	0.1-1.0	Surface tension reduction, anti-crater and low foam, no influence on recoatability			
UNIQ <sup>®</sup> FLOW 488 U	100	0.1-1.0	Strong surface tension reduction and excellent wetting properties, good compatibility, no inlfuence on recoatability			
UNIQ <sup>®</sup> FLOW 493 U	100	0.1-1.0	Fast leveling, excellent compatibilty levelling, high slip with good handfeeling			
UNIQ <sup>®</sup> FLOW 495 U	100	0.1-1.0	Silicone leveling agent, fast leveling and high slip with excellent handfeeling, shows some defoaming properties.			
UNIQ <sup>®</sup> FLOW 498 U	100	0.1-1.0	Improves slip, excellent anti-blocking properties, excellent leveling, low foam and improves gloss			
UNIQ®FLOW 499 U	100	0.2-3.0	Anti-graffitiy resistance additive after crosslinking			



Flow and leveling agents playing a very important role for the superior appearances of your coating.

These additives are needed to avoid problems like: orange peel, Bernard cell formation, floating, flooding, craters, fish eyes, fat edge (also called edge crawling).

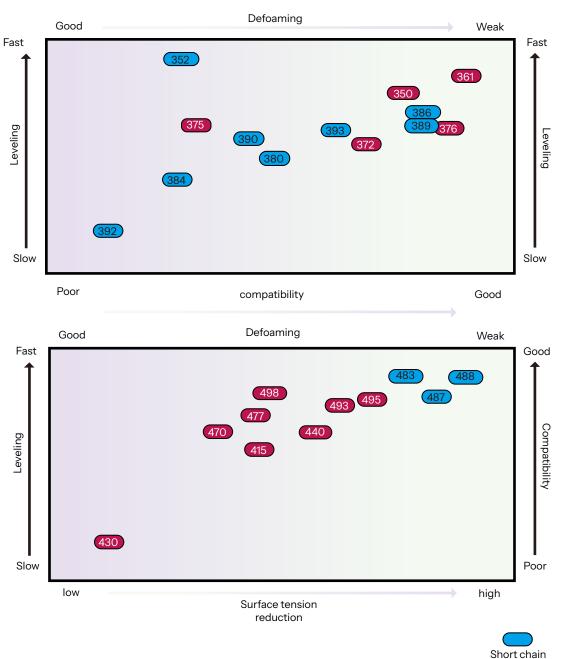
Leveling agents, due to the strong surface tension reduction properties can offer good wetting and leveling.

(Fluor modified) Acrylic leveling agents gives good long wave leveling and anti-crater performances.

These wetting and leveling agents are offered by UNIQCHEM under the brand of UNIQ<sup>®</sup>FLOW.



Acrylic



Long chain Silicone

silicone



# UNIQ<sup>®</sup>SPERSE

	SOLD CONTENT	AMINE	ACID VALUE	PROPERTIES / APPLICATION	WATER BASED	SOLVENT BASED	SOLVENT
High molecular	weig	ht dis	pers	ing agents			
UNIQ <sup>®</sup> SPERSE 510 S	50	6	14	Suited for TiO2, inorganic pigments and matting agents, well accepted in wood- and general industrial coatings			
JNIQ <sup>®</sup> SPERSE 550 S	45	14		General Industrial coatings, organic and inorganic pigments, suited for resin minimal pigment concentrates			
JNIQ <sup>®</sup> SPERSE 553 S	45	14		Suited for all pigments, preparation of Resin minimal pigment concentrates. Reduces viscosity and avoid flooding and floating			
JNIQ <sup>®</sup> SPERSE 560 S	30	8		Dispersant for high performance requirements in industrial- and refinish coatings			
JNIQ <sup>®</sup> SPERSE 580 U	100	52		High performance dispersant for difficult pigments. Gives excellent jetness with blue undertone for HCC black pigments.			
JNIQ <sup>®</sup> SPERSE 586 U	100	45	3	Allround dispersant for organic and inorganic pigments showing excellent salt spray resistance			
JNIQ <sup>®</sup> SPERSE 590 U	100	27	27	Suited for organic and inorganic pigments, excellent compatibility and dispersebility transparent iron oxides			
JNIQ <sup>®</sup> SPERSE 605 S	40	19	8	High performance dispersant for industrial- and refinsh coatings suited for all pigments			
JNIQ <sup>®</sup> SPERSE 615 S	40	19	8	High performance dispersant for industrial- and refinsh coatings suited for all pigments			
JNIQ <sup>®</sup> SPERSE 618 S	40	23		High performance dispersant for industrial- and refinsh coatings suited for all pigments with strong viscosity reduction, compatible in CAB gives high jetness			
JNIQ <sup>®</sup> SPERSE 630 U	100	40		Mainly suited for HPP organic pigments, showing excellent transparency and chroma			
JNIQ <sup>®</sup> SPERSE 650 U	100		14	Mainly suited for inorganic pigments and matting agents			
JNIQ <sup>®</sup> SPERSE 670 U	100	70	42	Dispersing agents for transparent iron oxide, matting agents, inorganic pigments			
JNIQ <sup>®</sup> SPERSE 680 U	100	65	9	High performance universal dispersant for all applications. Suited for all pigments, giving excellent jetness and viscosity reduction			
JNIQ <sup>®</sup> SPERSE 685 U	100		12	Industrial application, epoxy flooring, avoids color floatations, gel coats			
JNIQ <sup>®</sup> SPERSE 686 S	100	57	11	High performance universal dispersant suited for all pigments. Gives excellent jetness and color development for organic pigments. CAB compatible.			
JNIQ <sup>®</sup> SPERSE 688 W	35	22		Suited for resin free pigment concentrates for all kind of pigments with excellent water resistance			
JNIQ <sup>®</sup> SPERSE 690 W	40	15	15	Suited for organic and inorganic pigments, excellent compatibility.			
JNIQ <sup>®</sup> SPERSE 692 W	40	20	20	Suited for all pigments, excellent compatibility and dispersebility including transparent iron oxides			
.ow molecular w	<b>reig</b> h	t disp	oersi	ng agents			
JNIQ <sup>®</sup> SPERSE 710 S	50		80	Excellent for TiO2, fillers and extenders, low viscosities			
JNIQ <sup>®</sup> SPERSE 711 S	100		140	100% version of 710S			
JNIQ <sup>®</sup> SPERSE 715 S	100		105	Excellent for TiO2, fillers and extenders, low viscosities, economical version of 711S			
JNIQ <sup>®</sup> SPERSE 716 S	50		68	Excellent for TiO2, fillers and extenders, low viscosities, economical version of 710S			
JNIQ <sup>®</sup> SPERSE 730 U	100		60	Universal dispersant for TiO2, extenders and fillers, strong viscosity reduction			
JNIQ <sup>®</sup> SPERSE 740 U	100	60	33	100% version of 745S			
JNIQ <sup>®</sup> SPERSE 745 S	50	20	35	improve the pigment wetting, espcially for extenders and inorganic pigments and activation of organically Bentonites, suyited for co-grinding.			
JNIQ <sup>®</sup> SPERSE 764 S	50		140	Anti flooding dispersant and suited for inorganic pigments			
JNIQ <sup>®</sup> SPERSE 765 S	50		125	Anti flooding dispersant with silicone. gives metallic orientation in base coats.			
JNIQ <sup>®</sup> SPERSE 770 U	100	88		Dispersant for all kind of pigments, usage at low dosage, especially suited for alkyds systems and co-grinding process			
JNIQ <sup>®</sup> SPERSE 780 U	100	69	92	Suited for stabilisation of TiO2, fillers and extenders pigments, strong visocity reduction and gives excellent gloss.			
JNIQ <sup>®</sup> SPERSE FA 625	100	48	48	Suited for all kind of pigments especially for decorative coatings for universal colorants including compatibility for LOA. Gives colour acceptance by post-add			
JNIQ <sup>®</sup> SPERSE LP4540A	40			Excellent dispersing agent for grinding fillers and TiO2 for decorative, ammonia neutralised			
JNIQ <sup>®</sup> SPERSE LP4540N	40			Excellent dispersing agent for grinding fillers and TiO2 for decorative, sodium neutralised			
JNIQ <sup>®</sup> SPERSE LP4534	30			Hydrophobic dispersing agent for grinding fillers and TiO2 for decorative, improved scrub reistance			
				Hydrophobic dispersing agent for grinding fillers and TiO2 for decorative,			



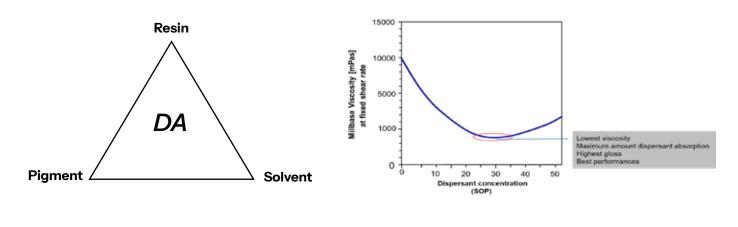
Dispersing agents playing a very important role for the wetting and stabilization of pigments.

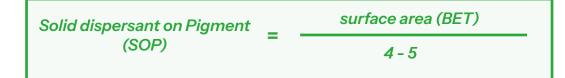
The faster the wetting is taking place the faster the stabilization can take place. In this process it is important to be able to reduce the particle size back to the primary particle of the pigment. Than you will achieve the maximum color strength.

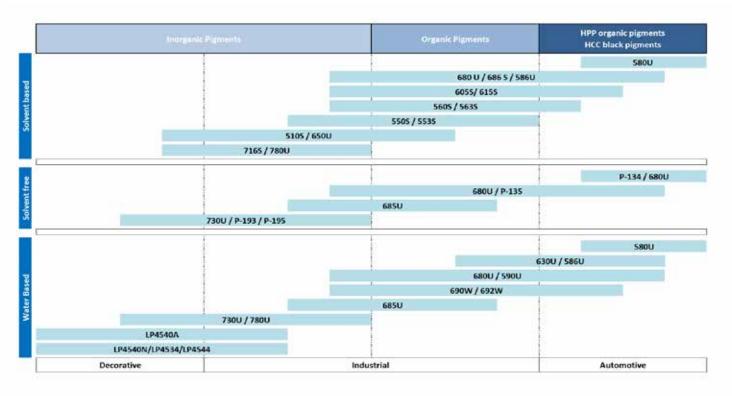
Very good dispersing agents will offer you very good viscosity reduction, color strength, reduction in processing time.

These wetting and dispersing agents are offered by UNIQCHEM under the brand UNIQ®SPERSE.

Very important is to identify the right SOP (solid dispersant on pigment) what depends on the pigment type (color index), surface area, resin and solvent type and may differ from resin to resin and pigment to pigment. Ladder study for optimized dosage on dispersing agnet on pigment is required.







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# UNIQ<sup>®</sup>VIS

UNIQ<sup>®</sup>VIS is our brand for some special products, like rheology control agents and conductivity agents.

	CHEMISTRY	DOSAGE %	PROPERTIES / APPLICATION	WATER BASED	SOLVENT BASED
Rheology and sp	oecialties				
UNIQ <sup>®</sup> VIS 810 S	Polyurea	0.1-2.0	Urea thickener for low polar to medium polar area		
UNIQ <sup>®</sup> VIS 817 S	rheology agent	20-30	Rheology modifyer to activate hydrophilic fumed silica		
UNIQ <sup>®</sup> VIS 820 W	Polyurea	0.1-2.0	Urea thickener for medium polar to high polar area		
UNIQ®VIS 840 W	Modified urea	3.0-10.0	Prevent drying out of pigment paste		
UNIQ <sup>®</sup> VIS LP8048	Polyurea	0.1-2.0	0 Urea thickener for medium polar to high polar area. NMP free		
UNIQ®VIS LP8050	Polyuera	0.1-2.0	0 Urea thickener for Low polar to polar area, NMP free		
UNIQ <sup>®</sup> VIS 886 S	Alkylolammonium salt	0.1-2.0	Increase the Conductiviy of Electrostatically Sprayed Solvent- based Coatings		



**LIGHT** is the brand for our light stabilizers suitable for wood-, plastic-, industrial-, coil-, and automotive coatings. These products can improve the weather resistance of coatings

	CHEMISTRY	DOSAGE %	PROPERTIES / APPLICATION	WATER BASED	SOLVENT BASED
Light Stabilizers					
UNIQ®LIGHT 923	HALS	0.5-3.0	Acid system HALS		
UNIQ <sup>®</sup> LIGHT 930	Benzotriazole	1.0-3.0	Common used UV absorber		
UNIQ®LIGHT 940	triazine	1.0-3.0	High performance UV absorber		
UNIQ <sup>®</sup> LIGHT 951	Blend	1.0-5.0	Blend light stabilizer		
UNIQ <sup>®</sup> LIGHT 960	Biena	1.0-3.0	Blend light stabilizer		
UNIQ®LIGHT 984	Benzotriazole	1.0-3.0	UV absorber for automotive		
UNIQ®LIGHT 992	HALS	0.5-3.0	Common used HALS		

# Additives for Ink and Inkjet



# UNIQ<sup>®</sup>SPERSE UNIQ<sup>®</sup>JET



	SOLD	AMINE	ACID VALUE	PROPERTIES / APPLICATION	WATER BASED	SOLVENT BASED	3
Dispersing Agents							
UNIQ <sup>®</sup> SPERSE 9012	40	16	9	Suitable for all the pigments, can be used for pigment concentrates			
UNIQ <sup>®</sup> SPERSE 9330	100		60	TiO <sub>2</sub> and inorganic pigments dispersion, excellent in viscosity reduction			
UNIQ <sup>®</sup> SPERSE 9335	35	17		Suitable for all the pigments, can be used for pigment concentrates, excellent transparency and density			
UNIQ <sup>®</sup> SPERSE 9350	45	14		Good compatibility with resins and solvents. Suitable for all pigments dispersion			
UNIQ <sup>®</sup> SPERSE 9370	100	80		Excellent wetting and dispersing agent compatibility with resins and solvents in high polar area like in alcohols. Suitable for all pigments dispersion			
UNIQ <sup>®</sup> SPERSE 9380	100	65	10	Excellent dispersant for all pigments suited for all kind of Ink and digital ink			
UNIQ <sup>®</sup> SPERSE 9450	100	3	14	Suitable for universal tinters for all pigments dispersion. Especially good in TiO2 and inorganic pigments dispersion with good sedimentation and anti-floating properties	•		

	SOLD	AMINE	ACID VALUE	PROPERTIES / APPLICATION	WATER BASED	SOLVENT BASED	
Dispersing Agents	<u>йй</u>	<u> </u>	ĕ۶	PROPERTIES/ APPLICATION	≥/ä	ŭ A	3
UNIQ®JET 9053	100		12	Suitable for universal tinters for all pigments dispersion. Especially good in TiO2 and inorganic pigments dispersion with good sedimentation and anti-floating properties		•	•
UNIQ®JET 9506	30	8		Good color developing for most of the organic pigments, improved viscosity, gloss and color strength			
UNIQ®JET 9510	100	17		Organic and inorganic pigments dispersion, excellent for jetness improvement of carbon black			
UNIQ®JET 9520	100	12		Suitable for all pigments dispersion in solvent borne and UV system			
UNIQ <sup>®</sup> JET 9528	100	53	16	Excellent color developing for most of the organic pigments, low viscosity, gloss, color strength and stability, CAB compatible			
UNIQ <sup>®</sup> JET 9529	100	48	10	Excellent color developing for most of the organic pigments, low viscosity, gloss, color strength and stability, CAB compatible			
UNIQ <sup>®</sup> JET 9550	100	75	11	Excellent color developing for several organic pigments, low viscosity, gloss, color strength and stability			
UNIQ®JET 9560	100	50		Excellent color developing for most of the organic pigments, low viscosity, gloss, color strength and stability			

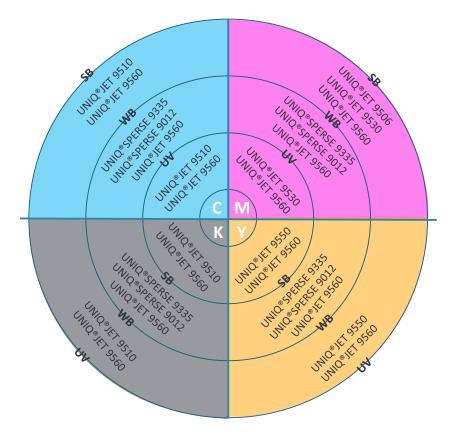
### Gravure ink

Aromatics Toluene	Aromatics/Ketone Toluene / MEK	Ketone/Esters MEK / EA	Esters/Alcohol EA / IPA (EtOH)	<b>Alcohol</b> IPA (Et/OH)
1		Organic pigments		
	UNIQ <sup>®</sup> SPERSE 605S	UNIQ <sup>®</sup> SPERSE 9380 UNIQ <sup>®</sup> SPERSE 9506 UNIQ <sup>®</sup> SPERSE 770U	UNIQ <sup>®</sup> JE	ET 9560
1		Inorganic pigments		
		UNIO <sup>®</sup> SPERSE 716S UNIO <sup>®</sup> SPERSE 730U UNIO <sup>®</sup> SPERSE 770U UNIO <sup>®</sup> SPERSE 780U		
V				

### **Flexographic ink**

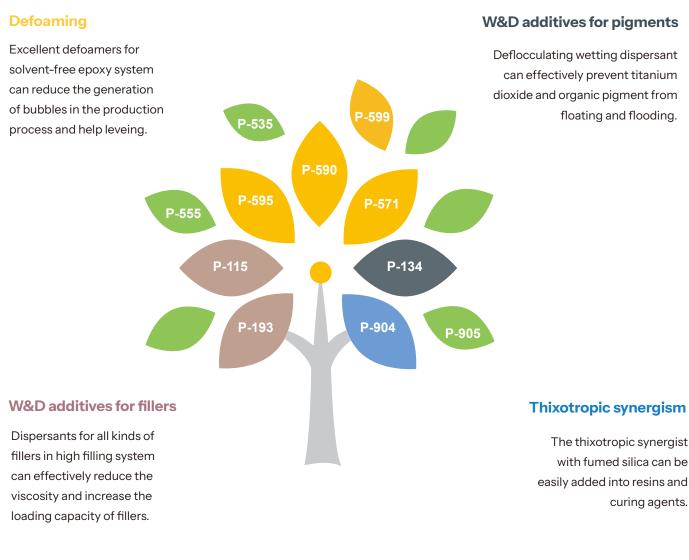
Solvent based	Water based
UNIQ <sup>®</sup> JET 9053	UNIQ <sup>®</sup> SPERSE 9012
UNIQ <sup>®</sup> SPERSE 9380	UNIQ <sup>®</sup> SPERSE 9380
UNIQ <sup>®</sup> SPERSE 770U	UNIQ <sup>®</sup> SPERSE 9335
UNIQ <sup>®</sup> SPERSE 730U	UNIQ <sup>®</sup> SPERSE 730U

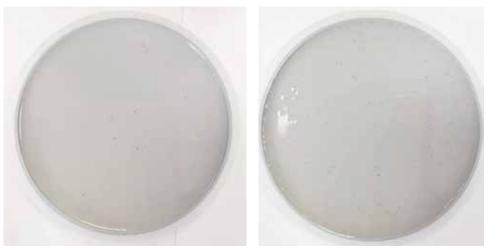
### Inkjet SB, UV and WB



### **UV Offset ink**

Additives for Composites, SMC/BMC, Ambient curing systems and PVC plastisols UNIQCHEM offers a full range of additives for the ambient curing systems, PVC plastisols and composites. This is a range of defoamers, flow agents with strong defoaming properties, wetting and dispersing agents and rheology additives enhancers.





### **Defoamers for floor coatings**

P-571

COMP

Dosage total formulation: 0,5%



# Additives for composites

	PRODUCT TYPE	INDUSTRIE	SYSTEMS	FILLER TYPE	PROPERTIES
UNIQ®SPERSE P-115	Dispersant	Molding/pultrusion/ UPR/Adhesives/ Sealants/potting	UPR/Vinyl	CaCO <sub>3</sub> /ATH	Wetting and dispersing agent for filler material with strong viscosity reduction.
UNIQ <sup>®</sup> SPERSE P-172	Phase seperation prevention additive	SMC	UPR/Vinyl	/	Effectively prevents phase separation of resin componentsfrom polysterene
UNIQ <sup>®</sup> SPERSE P-134	Dispersant	Liquid colorants	Plasticizers / PU	Organic pigments/ Carbon black	Excellent wetting and dispersing agent for organic- and carbon black pigments, strong viscosity reduction and excellent color development
UNIQ <sup>®</sup> SPERSE P-120	Dispersant	Epoxy/ UPR/ PU/ PVC	Gelcoats/putty/ Epoxy/PU	inorganic pigments/ fillers/CaCO <sub>3</sub> /ATH	Wetting and dispersing agent for fillers, strong viscosity reduction
UNIQ <sup>®</sup> SPERSE P-141	Dispersant	UPR	UPR/Vinyl	CaCO <sub>3</sub>	Wetting and dispersing agent for fillers, strong viscosity reduction
UNIQ <sup>®</sup> SPERSE P-144	Dispersant	UPR	UPR/Vinyl/ Epoxy	CaCO <sub>3</sub> /ATH	Wetting and dispersing agent for fillers, strong viscosity reduction
UNIQ <sup>®</sup> SPERSE P-193	Dispersant	100	SMC/ Adhesives/ Sealants	CaCO <sub>3</sub> /ATH/Ca(OH) <sub>2</sub> , fumed silica/ SiO <sub>2</sub>	Wetting and dispersing agent for filler material with strong viscosity reduction. Also suited for TiO2
UNIQ®SPERSE P-195	Dispersant	100	SMC/ Adhesives/ Sealants	CaCO <sub>3</sub> /ATH/Ca(OH) <sub>2</sub> , fumed silica/ SiO <sub>2</sub>	Wetting and dispersing agent for filler material wth strong viscosity reduction. Also suited for TiO2
UNIQ <sup>®</sup> SPERSE P-904	Thixotropic synergist	Epoxy/UPR/Adhesives/ sealants	Epoxy/ UPR/ Adhesives / Sealant	Fumed Silica / Bentone	Thixotropic synergist with fumed silica, strong thixotropic effect
UNIQ®FOAM P-535	Defoamer	PU	PU	1	100% silicone free , excellent against micro and macro-foam
UNIQ®FOAM P-555	Defoamer	UPR	UPR	1	Strong defoamer, silicone free, especially suitable for UPR systems like putty and gelcoats
UNIQ®FOAM P-571	Defoamer	Epoxy/ UPR/ PU/ PVC	Epoxy/ UPR/ Adhesives / PU/ Sealant	1	Strong silicone free defoamer for Epoxy flooring and PU flooring, with fast air-release, defoaming and macro-foam destroying properies.
UNIQ <sup>®</sup> FOAM P-590	Defoamer	PU	PU adhesives and sealants	1	Silicone free 100% defoamer, offering strong ant- foam and macro defoaming properties, suited for fast curing systems
UNIQ <sup>®</sup> FOAM P-595	Defoamer	UPR/Epoxy/PU	UPR/Epoxy/PU	1	Excellent transparency, suited for clear systems
UNIQ®FOAM P-599	Defoamer	UPR/Epoxy/PU	UPR/Epoxy/PU	1	Excellent transparency, suited for PU, Epoxy and UPR. Helps avoiding pinholing and popping
UNIQ®VIS P-910	Rheology agent	Molding/pultrusion/ UPR/adhesives/ sealants	UPR/Epoxy/PU/ Vinyl	Fumed silica/bentones	Liquid rheology modifier can pprovide high thixotropic flow behavior and improve sag- and sedimentation resistance
UNIQ®VIS P-920	Rheology agent	Molding/pultrusion/ UPR/adhesives/ sealants	UPR/Epoxy/PU/ Vinyl	CaCO <sub>3</sub> /H <sub>3</sub> AlO <sub>3</sub> /Fumed silica/ SiO <sub>2</sub> /TiO <sub>2</sub>	Liquid rheology modifier can pprovide high thixotropic flow behavior and improve sag- and sedimentation resistance
UNIQ®FLOW P-990	Fiber wetting agent	Composites/Wind power/pultrusions/ winding	UPR/Epoxy/PU/ Vinyl	Glass Fiber / Carbon fiber	Improves wetting of glass- and carbon fibers, reduce bubble entrapment, avoid dry spots and reduce surface defects
UNIQ <sup>®</sup> SPERSE P-1450	Internal release agent	Composites/Wind power/pultrusions/ winding	UPR/Epoxy/PU/ Vinyl	1	Multifunctional mold release agent, low migration, no effect on secondary processing and reduce surface defects

# **Notes**








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