



Additives for
inks & coatings

—
Product
guide



We Enable the Transformation of Light for a Better Future.



ADDITIVES FOR INKS AND COATINGS

Product guide



RAW MATERIAL AND TECHNICAL SOLUTION PROVIDER

iGM Resins made the acquisition of ADD Additives in 2020. ADD Additives BV started in 2010 and is rapidly expanding throughout Europe. ADD Additives manufactures and supplies an extensive range of high quality additives for industrial coatings, decorative paints, printing inks, adhesives, sealants, plastics and building materials.

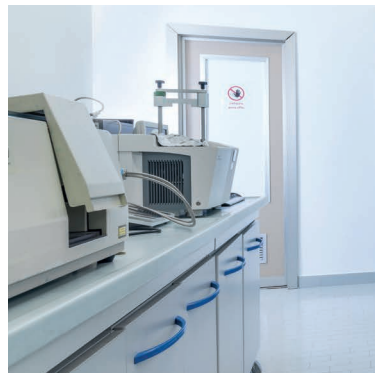
WE ENABLE THE TRANSFORMATION OF LIGHT FOR A BETTER FUTURE

To complement the already existing additives range, iGM Resins is investing resources

into new developments. The new developments and the technical service inquiries are carried out by our highly skilled staff. iGM Resins creates and nourishes solid and long term successful relationships with their partners by providing excellent customer service, customer support and supplying high quality materials.

Our extensive portfolio has allowed us to be a partner of choice for both multinational companies and small independent companies.

We deliver what we say and actively engage in finding the optimal solution for your business, creating top-notch customer satisfaction and profitability.



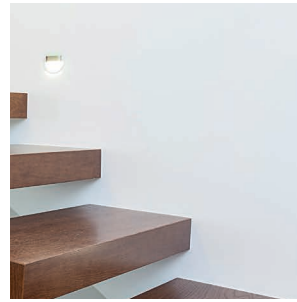
HOW TO GET MORE FROM US

Our network of offices and distribution centers globally are established in all major energy curing markets to offer customer-focused and efficient supply. Our customer service is world class. Application and product development laboratories are available to provide customers with technical support and formulation advice.

Whatever your application, the iGM Resins technical service team is on hand to provide support with formulation challenges. If we don't have the right product, we can work with you to develop one.

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Binders for Pigment Concentrates

Binders for Resin Minimal Pigment Concentrates

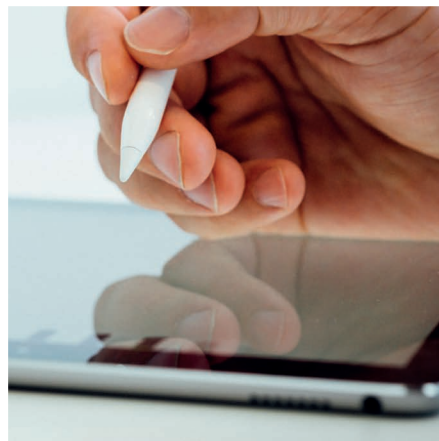
The RMPC concept improves the manufacture of pigmented coatings or paints through the use of a highly pigmented, low resin content pigment concentrates. The concentrates can be formulated to be compatible with the majority of resins used to manufacture industrial coatings, while meeting the specific requirements of paint end-users.

Resin Minimal Pigment Concentrates (RMPC) based on ADD binders and high molecular weight dispersants offer the following advantages over conventional pigment concentrates:

1. Consistent colour development / no flocculation
2. Considerably lower resin content
3. Significantly lower viscosity

This leads to the following benefits:

- No flooding or floating
- Minimal effect on the quality of the finished product
- Application in a very wide range of different systems and solvents due to excellent compatibility of the pigment concentrates ADD-1000 range.



Description / Application	Incorporation	Active Content %	Solvent borne	Waterborne	UV
OMNIVADD 1000 RANGE - BINDERS FOR PIGMENT CONCENTRATES					
Omnivadd WP 1501 Fatty acid modified polymer, crosslinkable with amino or polyisocyanate resins	Before	100	•	•	
Omnivadd WP 1502 Fatty acid modified polymer, VOC free	Before	95		•	

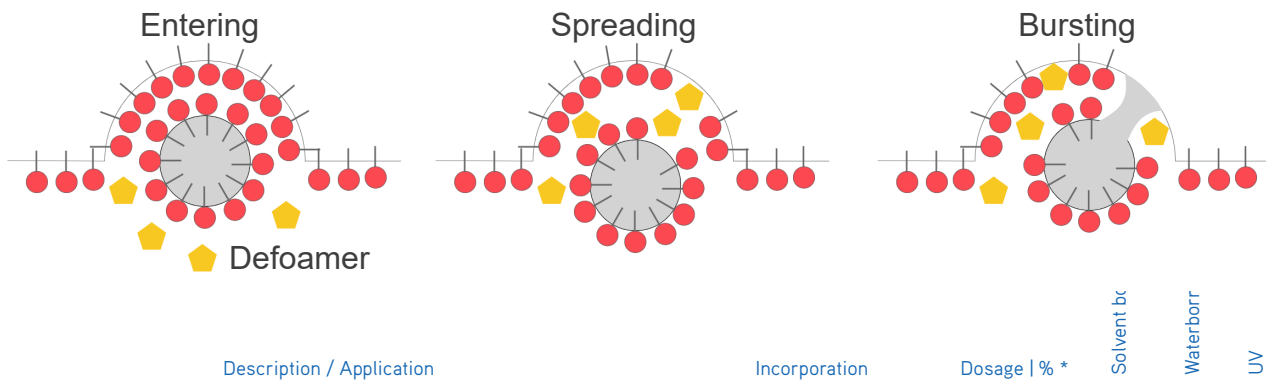
Foam Control Additives

Foam

During the production and application of paint systems, foam is an undesired side-effect of mixing. It is usually slowing production and making it difficult to fill vessels with the correct amount of paint. In addition it can cause surface defects such as craters and weak points in the dried film.

Stable dispersion of gas bubbles in a liquid medium

The most general definition of foam is a substance that is formed by trapping many gas bubbles in a liquid or solid. A foam is normally an extremely complex system consisting of poly disperse gas bubbles separated by draining films. In other words foam can be described as a stable dispersion of gas bubbles in a liquid medium. In pure liquids, foam is not stable. Foam is only stable in systems containing surfactants.



OMNIVADD 2000 RANGE - SILICONE-FREE FOAM CONTROL ADDITIVES

Product	Description / Application	Incorporation	Dosage % *	Solvent bc	Waterborr	UV
Omnivadd WD 2020	Acid-cure and NC-curtain coating systems, unsaturated polyester and gelcoats	Before or after processing	0.1-0.7	•		•
Omnivadd ED-2163	Air release additive to prevent foam and bubbles during the manufacture and application	Before and/or after processing	0.1-1.0	•		
Omnivadd WD 2504	Mineral oil-based high performance defoamer for aqueous formulations	Before and/or after processing	0.1-0.5		•	
Omnivadd WD 2508	Vegetable oil-based high performance defoamer for aqueous formulations	Before and/or after processing	0.1-1.0		•	
Omnivadd WD 2523	High performance liquid defoamer for aqueous formulations	Before and/or after processing	0.1-0.5		•	
Omnivadd WD 2526	Defoamer for various water-based coating and water based ink systems	Before and/or after processing	0.1-1.0		•	
Omnivadd WD 2548	Very effective silicone free high performance defoamer for water-based ink & coatings	Before and/or after processing	0.5-1.0		•	
Omnivadd WD 2720	Unsaturated polyester, epoxy and polyurethane systems	Before or after processing	0.1-1.0	•		•
Omnivadd WD 2724	Unsaturated polyester, epoxy and polyurethane systems	Before or after processing	0.1-1.5	•		

Description / Application		Incorporation	Dosage % *	Solvent borne	Waterborne	UV
Omnivadd WD 2025	Physically drying systems and air drying alkyds	Before or after processing	0.1-1.0	•		
Omnivadd WD 2026	Physically drying systems and air drying alkyds and especially for ink	Before or after processing	0.1-1.0	•		
Omnivadd WD 2040	Silicone defoamer for high gloss solvent-based systems	Before or after processing	0.1-0.7	•		
Omnivadd WD 2041	Solvent borne industrial and decorative finishes, including roller, brush and airless spray applications	Final production	0.1-0.7	•		
Omnivadd ED-2165	Silicone and polymer containing defoamer for solvent-borne and solvent-free coatings, adhesives and plastic systems	Before or after processing	0.5-2.0	•		
Omnivadd ED 2190	Defoamer in various water-based coating as well as in water based ink systems	Before or after processing	0.5-2.0		•	
Omnivadd WD 2286	For solvent borne and radiation curing coatings, inks and varnishes. Ideal for high speed rotation screen printing inks	Before processing	0.05-0.6	•		•
Omnivadd WD 2525	Highly compatible silicone based high performance defoamer for water-based pigment concentrates.	Before processing	0.1-1.0		•	
Omnivadd WD 2549	Rapid de-aeration of all kind of water based ink and coating formulations	Before processing	0.5-1.0		•	
Omnivadd WD 2560	VOC-free clear silicone-based defoamer which is particularly designed for water- and glycol-based pigment concentrates and universal colorants	Before or after processing	0.1-0.5		•	
Omnivadd WD 2561	VOC-free silicone-based defoamer for water-based coatings, printing inks, overprint varnishes and emulsion adhesives. Suitable for pigment concentrates	Before or after processing	0.05-0.8		•	
Omnivadd WD 2563	VOC-free all-purpose defoamer that is easy to incorporate in all kinds of water-based coatings, printing inks, overprint varnishes and emulsion adhesives	Before or after processing	0.2-1.0		•	
Omnivadd WD 2564	VOC-free clear defoamer that is easy to incorporate in all kinds of water-based coatings, printing inks, overprint varnishes and emulsion adhesives. Suitable for pigment concentrates	Before or after processing	0.1-1.0		•	
Omnivadd WD 2568	VOC-free clear defoamer that is easy to incorporate in all kinds of water-based coatings, printing inks, overprint varnishes and emulsion adhesives	Before or after processing	0.1-1.0		•	
Omnivadd WD 2721	Defoaming substances in acrylate monomers for radiation curing systems	Any stage	0.5-1.0			•
Omnivadd WD 2722	Solvent-free epoxy and polyurethane systems	Before addition of pigments/fillers	0.5-1.5	•		
Omnivadd WD 2723	Solvent-free epoxy and polyurethane systems, low odour	Prior to processing	0.5-1.5	•		
Omnivadd WD 2730	2 Component polyurethane and epoxy systems	Prior to processing	0.5-1.5	•		
Omnivadd VA S541E	Nonionic surface active agent, which provides both wetting and defoaming properties	Any stage	0.2-2.0		•	

* Dosages: % on total formulation

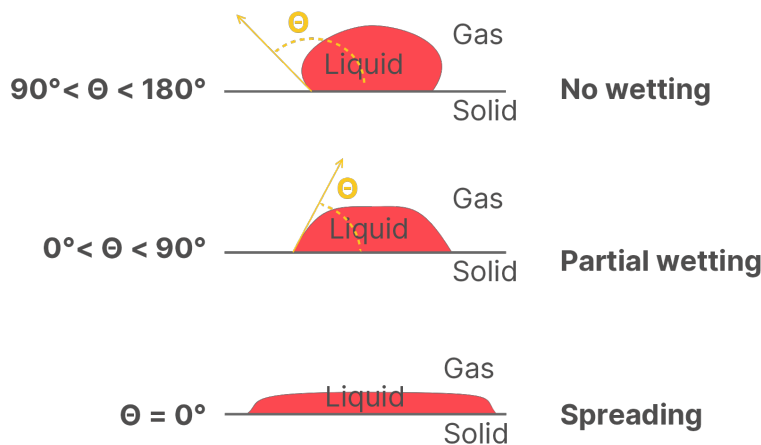
Slip & Levelling Additives

The surface of coating

Although the coating might be for different purposes; protective, decorative or both, it is the eye-catcher for its users and consumers. It is exposed to “the world” and has not only to withstand some severe circumstances like weathering, but is responsible for the appearance of the coating, colour, brightness, gloss and the “touch”. It all starts at the surface. In most cases, superior surface properties cannot be achieved without the addition of slip & levelling additives which alter the surface properties of the coating.

Polysiloxanes have a very high surface activity and therefore are often used as surface control additives. Silicone-based surface control additives are modified by polyethers, polyesters or alkyl side groups to improve recoatability and inter-coat adhesion. Modification parameters are silicone content, molecular weight, and modification degree.

Polyacrylates, homo- and copolymers based on (meth)acrylic monomers are well known surface control additives. In addition to their positive impact on flow and levelling, acrylic homo- and co-polymers are effective as air-release agents. Since they are not reducing the surface tension of the coating to the extent of silicone-based products, the wetting of substrate surfaces is improved (substrate wetting).



Description / Application	Incorporation	Dosage % *	Active content %	Solvent borne	Waterborne	UV
Omnivadd WD 3052 Emulsifier in coatings, printing inks, adhesives and detergents	End of process	0.05-1.0	50		•	
Omnivadd WF 3070 Emulsifier in coatings, printing inks, adhesives and detergents	End of process	0.05-1.0	30	•		
Omnivadd EF 3088 Provides ‘long wave’ levelling performance and increases gloss of the coating system	End of process	0.4-2.0	50	•		
Omnivadd XF 3260 Wetting, levelling and flow control agent with excellent anti-cratering properties	End of process	0.05-1.0	100	•		•

	Description / Application	Incorporation	Dosage % *	Active content %	Solvent borne	Waterborne	UV
Omnivadd XF 3506	Paraffin wax emulsion for anti-blocking, scratch and burnish resistance for inks and coatings	End of process	0.05-1.0	40		•	
Omnivadd XF 3572	Anionic substrate wetting agent	End of process	0.1-0.5	70		•	
Omnivadd WF 3575	Excellent substrate wetting, levelling and anti-cratering	After or prior to processing	0.5-1.5	55		•	
Omnivadd XF 3772	Solvent borne or solvent free systems, coil coatings, OEM and industrial coatings	End of process	0.5-2.0	60	•	•	
Omnivadd SF 3777	Strong anti-cratering	End of process	0.5-1.0	70	•		
Omnivadd VA 3906	Polyethylene wax for anti-blocking and scratch resistance	Depending on system	0.5-2.0	100	•	•	

OMNIVADD 3000 - SILICONE-CONTAINING SLIP & LEVELLING ADDITIVES

Omnivadd XF 3030	Improve slip and mar resistance, very compatible	Any stage	0.1-1.0	52	•	•	
Omnivadd XT 3031	Good substrate wetting of critical substrates, heat resistant silicone additive	Any stage	0.1-1.0	52	•		
Omnivadd XF 3033	Improve surface flow, excellent compatibility in clear coat	Any stage	0.1-1.0	15	•		
Omnivadd XF 3034	Strong substrate wetting and cratering	End of process	0.05-0.5	52	•	•	
Omnivadd XF 3035	Solvent- and water borne stoving enamels, unsaturated PE including UV cured	End of process	0.5-1.0	52	•	•	
Omnivadd EF 3077	Unique wetting and spreading properties and can also improve flow and levelling properties	End of process	0.1-1.0	-	•	•	•
Omnivadd XF 3230	100% version of Omnivadd XF 3030	Any stage	0.05-0.5	100	•	•	•
Omnivadd XF 3236	Solvent borne wood finishes, industrial coatings and solvents-free coatings	After thinning	0.02-0.3	100	•		•
Omnivadd XF 3239	Similar to Omnivadd XF 3236, but stronger defoaming properties	After thinning	0.05-0.3	100	•		•
Omnivadd XF 3290	Premium additive that increases slip, surface smoothness and "soft-touch" effect	Any stage	0.05-0.5	100	•	•	•
Omnivadd WF 3580	Anti-cratering and leveling agent for waterborne coatings	After or prior to processing	0.1-1.0	100		•	
Omnivadd WF 3581	Leveling agent for waterborne coatings with impregnating properties	Any stage	0.2-1.0	100		•	
Omnivadd WF 3585	Solution of Omnivadd WF 3580	After or prior to processing	0.2-2.0	52		•	

* Dosages: % on total formulation

Dispersing Additives

Pigment stabilization by steric hindrance

When dispersing pigments, in particular organic pigments, one often encounters problems such as flocculation, insufficient colour or transparency, poor rheological behaviour or bad stability. These issues arise along every step of the coatings life cycle from production and storage through to the end-use performance of the film. The dispersing of solid pigments or fillers into the liquid phase of binder solutions is an important step in paint and coatings production influencing optical properties like gloss and colour strength. Dispersion control additives are used to improve and accelerate the dispersion process and to stabilize the dispersion during storage.

High molecular weight wetting and dispersing agents

They are built of linear or branched polyacrylate or polyurethane structures with a molecular weight between 5,000 g/mol - 30,000 g/mol and have special groups which have high affinity towards specific sites on the pigment surface. These are called anchoring groups, and are built in at strategic points on the polymer backbone.

Mode of action

Anchoring groups enable strong interaction between the dispersion control additive and the pigment surface. This interaction is much stronger compared to the anchoring mechanism of the conventional low molecular weight types. Because these dispersion control additives have multiple adsorption points, they are therefore connected to numerous sites on the surface of the pigment particles. The remaining parts of the dispersion control additive act as a steric barrier to the surroundings by stretching into the liquid phase and assuring an effective steric hindrance preventing flocculation.



Description / Application		Inorganics % of OA	Inorganics % of BET	Blacks % of DBP	Active content %	Solvent borne	Waterborne	UV
OMNIVADD 4000 - HIGH MOLECULAR WEIGHT DISPERSANTS BASED ON BLOCK COPOLYMER								
Omnivadd EP 4029	VOC- and solvent-free high molecular weight wetting and dispersing additive	10	30-50	25-30	100	•	•	•
Omnivadd EP 4031	Recommended for the preparation of resin-free pigment concentrates	-	20-30	20-50	90	•		
Omnivadd WP 4276*	Particularly recommended for carbon black pigments. Ideal for pigment concentrates for polyols and PVC plastisols and color masterbatches for thermoplastics	-	-	-	100	•		
Omnivadd WP 4519	Aqueous coating systems, printing inks and adhesives. Ideal for resin-free pigment concentrates	8-12	30-50	50-60	40		•	

OMNIVADD 4000 - HIGH MOLECULAR WEIGHT DISPERSANTS BASED ON POLYURETHANE CHEMISTRY

Omnivadd- SP 4009	General-use industrial coatings where cost effective performance is vital	10	30-50	15-25	60	•		
Omnivadd XP 4010	General-use industrial coatings including coil coatings and decorative finishes	5-10	20-40	25-30	50	•		
Omnivadd XP 4046	General-use industrial coatings	10	30-50	15-25	40	•		
Omnivadd XP 4047	High quality industrial finishes including automotive OEM and refinish	10	30-50	15-25	35	•		•
Omnivadd SP 4061	Particularly suited for stabilizing carbon blacks with a fine particle size as well as organic pigments	10	30-50	15-25	30	•		
Omnivadd SP 4063	Solvent-based coatings, including automotive topcoats and high-quality industrial coatings. Ideal for pigment concentrates for high-end applications requiring durability	10	25-50	20-30	45	•		
Omnivadd XP 4100	High quality industrial finishes including automotive OEM, refinish, as well as universal solvent-based colorants	10	30-50	15-25	50	•		

* Recommended addition levels (based upon pigment weight):
15-50% for carbon blacks, 10-25% for organic pigments and 5-10% for inorganic pigments

High molecular weight dispersants based on polyacrylates
OA: Oil absorption value
BET: Surface area value
DBP: Dibutyl Phtalate absorption value

Dispersing Additives

Pigment stabilization by controlled flocculation

The dispersing of solid pigments or fillers into the liquid phase of binder solutions is an important step in paint and coatings production influencing optical properties like gloss and colour strength. Dispersion control additives are used to improve and accelerate the dispersion process and to stabilize the dispersion during storage.

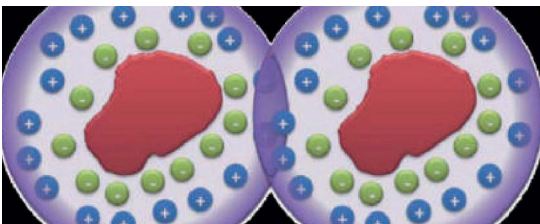
Low molecular weight wetting and dispersing agents

They are categorized according to their chemical structure and the nature of their hydrophilic groups (amphoteric, cationic, ... etc). The molecular weight is between 800 and approximately 2000 g/mol which is too low to give enough steric hindrance for stabilization of organic and carbon black pigments.

The interaction of their polar groups with the pigment surface and the behaviour of the non-polar chains in the medium determine their effectiveness.



Mode of action



The polar heads will form hydrogen bonding interactions between different pigment units resulting in a network that enhances the separation of the particles (controlled flocculation).

Inorganic pigments are usually metal oxides which contain positive metal ions and negative oxide ions. These ions are good anchoring points on which the

anchoring groups of the dispersion control additive can attach to (polar interactions).

Description / Application		Dosage based on inorganics pigments %	Dosage based on Organics pigments %	Dosage based on Bentonite %	Active content %	Solvent borne	Waterborne	UV
Omnivadd SP 5001	Cost effective dispersant based on fatty acids for primers and under-coats	0.5-2.0		30-50	30	•	•	
Omnivadd SP 5005	Solvent borne industrial and marine coatings	0.2-2.0	2.0-5.0		52	•		
Omnivadd SP 5010	All types of industrial coatings, especially for inorganic pigments	1.0-10.0	-	-	50	•		
Omnivadd SP 5044	Solvent borne or solvent-free coating systems. Also for bentonite gels	0.2-2.0	2.0-5.0	30-50	52	•		
Omnivadd XP 5054	Non-polar to medium-polar coating systems. Also for bentonite gels	0.2-2.0	2.0-5.0	30-50	52	•		
Omnivadd XP 5065	Polyurethane systems and stoving enamels. Also for orientation of aluminium pigments	0.5-2.5	-	-	52	•		
Omnivadd XP 5066	Polyurethane systems and stoving enamels. Strong anti-settling effect	0.5-2.5	-	-	52	•		
PureVadd 5071	Water and solvent borne systems. Strong anti-settling effects. Bio-based Content (ASTM D6866-21) : 53 %	0.5-2.0	2.5-5.0	-	52	•	•	
Omnivadd SP 5107	Recommended for architectural coatings to stabilize titanium dioxide, fillers and other organic and inorganic pigments	3-5	5-8	8-10	90	•		
Omnivadd SP 5135	Improve the wetting of pigment surfaces and organically treated Bentonites	0.25-1.0	-	15.0-25.0	100	•	•	
Omnivadd XP 5165	Similar to Omnivadd XP 5065, but with different solvents combination	0.5-2.5	-	-	52	•		
Omnivadd XP 5166	Similar to Omnivadd-5066, but with different solvents combination	0.5-2.5	-	-	52	•		
Omnivadd SP 5207	Solvent borne architectural and decorative paints	0.5-5.0	2.0-5.0	-	100	•		•
Omnivadd SP 5217	Solvent borne, solventless coatings and printing inks. Excellent for Titanium Dioxide and extenders	0.5-5.0	-	-	100	•		•
Omnivadd SP 5244	Solvent-free version of Omnivadd SP 5044	0.1-1.0	1.0-2.5	15-25	100	•		•
PureVadd 5254	Electro-neutral wetting and dispersing additive to improve the wetting of pigment surfaces and organically treated Bentonites. Bio-based Content (ASTM D6866-21) : 100 %	0.25-1.0	-	15-25	100	•		
PureVadd 5266	Prevent flooding and floating and hard sedimentation. Bio-based Content (ASTM D6866-21) : 84 %	0.25-1.25	-	-	100	•		
Omnivadd XP 5844	Solvent borne or solvent-free coating systems. Ideal for dispersing extenders in thermosetting resins	0.1-1.5	1.0-3.0	20-30	80	•		

Dispersing Additives

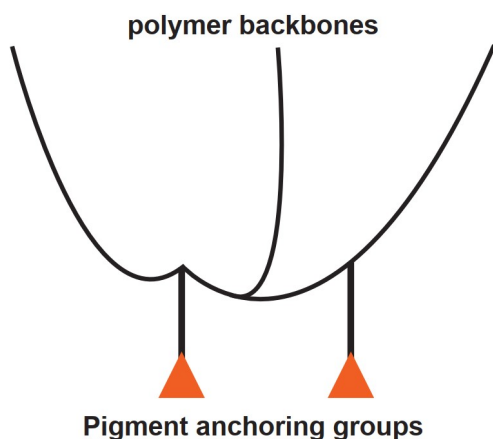
Pigment stabilization by hybrid dispersants

Hybrid dispersants are modern low molecular weight dispersants. They contain anchoring mechanisms similar as in high molecular weight dispersants but have significant lower molecular weights varying between 1000 – 5000 g/mol. Due to the anchoring groups, multi adsorption is possible and therefore anchoring on organic- & carbon black pigments can be achieved. Compared to conventional low molecular weight dispersants the molecular weight of these hybrid dispersants are usually much higher which ensures more improved steric hindrance.

The active substance of hybrid dispersant is typically 100%. Because high molecular weight dispersants are usually having 30 – 60% activity, hybrid dispersants are very cost effective to use.

Unlike conventional low molecular weight dispersants, hybrid dispersants can be used for inorganic-, organic- and carbon black pigments.

Example of a hybrid dispersant polymer with 'triple tail' technology.

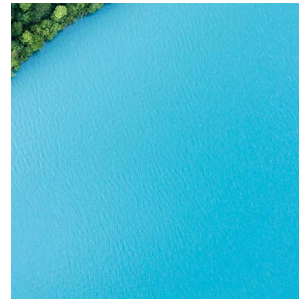
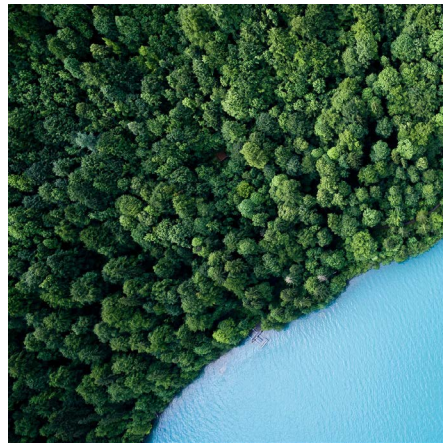
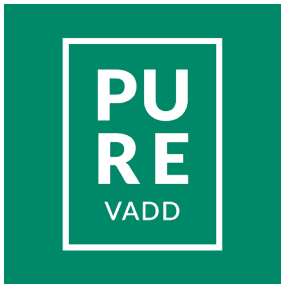


Description / Application		Dosage based on inorganics pigments %	Dosage based on Organics pigments %	Dosage based on Bentonite %	Active content %	Solvent borne	Waterborne	UV
Omnivadd WP 6140	Solution of an ammonium salt of an acrylic polymer in water	0.5-2.0	-	-	44		•	
Omnivadd WP 6141	Especially suited for the dispersion of inorganic pigments.	0.5-2.0	-	-	44		•	
Omnivadd XP 6211	Acidic polyether, dispersant for solvent-based and solvent-free coatings and composite, is particularly suitable for car putties	0.5-2.0	-	-	100	•		
Omnivadd XP 6212	Acidic polyether, dispersant for solvent-based and solvent-free coatings and composite	5-10	-	-	100	•	•	
Omnivadd XP 6215	Anionic wetting agent to improve compatibility and color acceptance of all kinds of tinting pastes in both solvent and water-based systems, VOC-Free	3-10	10-20	15-25	100	•	•	
PureVadd 6220	Hybrid dispersant to improve compatibility and color acceptance of universal colorants in base paints. Bio-based Content (ASTM D6866-21) : 55 %	5-10	10-20	15-25	100	•	•	
PureVadd 6225	Hybrid dispersant for universal colorants for tinting systems. Bio-based Content (ASTM D6866-21) : 29 %	5-10	10-20	15-25	100	•	•	
PureVadd 6228	Hybrid dispersant for oil and solvent-based systems and colorants. Also for heatset and offset inks. Bio-based Content (ASTM D6866-21) : 55 %	5-10	10-20		100	•		
Omnivadd XP 6230	Aliphatic polyether with acidic groups	1-3	-	-	100	•	•	•
Omnivadd XP 6231	Aliphatic polyether with acidic groups especially for PVC plastisol purposes	1-3	-	-	100	•	•	•
PureVadd 6245	Hybrid dispersant for universal colorants for tinting systems, VOC- free and low viscosity pumpable dispersant. Bio-based Content (ASTM D6866-21) : 29 %	5-10	10-20	15-25	100	•	•	•
Omnivadd XP 6525	Hybrid dispersant stabilizing all kind of pigment and extenders in waterborne coatings, especially in decorative coatings	10-20	20-40	-	50		•	
Omnivadd XP 6540	Triple tail technology dispersant to improve stability of tinting pastes as well as dispersant for organic, inorganic and pearlescent pigments	0.5-2.0	2.5-5.0	-	62		•	

Incorporation: In the mill base before adding the pigments

Description / Application		Dosage %	Active Content %	Solvent borne	Waterborne	UV
OMNIVADD 7000 - RANGE MISCELLANEOUS						
Omnivadd VA 7112	Alkali- swellable acrylic thickener for Newtonian rheological behaviour	0.3-1.5	40		•	
Omnivadd VA 7200	Solvent and halogen free conductivity agent	0.2-2.0	100	•	•	
Omnivadd VA 7500	Increased pigment loading in the mill-base or pigment concentrate	1.0-3.0	100	•	•	
Omnivadd VA N100	Derivative of a family of highly effective, low viscosity dispersing agent for water-borne coating systems	0.5-2.0	90	•	•	

* Recommended addition levels are based upon pigment weight



Product range	Description / Application	Biobased content ASTM D 6866-21	Solvent borne	Waterborne	UV
PureVadd 5071	Low Molecular Weight Dispersants Water and solvent borne systems. Strong anti-settling effects.	53	•	•	
PureVadd 5254	Low Molecular Weight Dispersants Electro-neutral wetting and dispersing additive to improve the wetting of pigment surfaces and organically treated Bentonites.	100	•		
PureVadd 5266	Low Molecular Weight Dispersants Prevent flooding and floating and hard sedimentation.	84	•		
PureVadd 6220	Modern Low Molecular Weight Dispersants Hybrid dispersant to improve compatibility and color acceptance of universal colorants in base paints.	55	•	•	
PureVadd 6225	Modern Low Molecular Weight Dispersants Hybrid dispersant for universal colorants for tinting systems.	29	•	•	
PureVadd 6228	Modern Low Molecular Weight Dispersants Hybrid dispersant for oil and solvent- based systems and colorants. Also for heatset and offset inks.	55	•		
PureVadd 6245	Modern Low Molecular Weight Dispersants Hybrid dispersant for universal colorants for tinting systems, VOC- free and low viscosity pumpable dispersant.	29	•	•	•

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