

PRODUCTNAME	DESCRIPTION	PAINT SYSTEMS	APPLICATION	SPECIAL FEATURES
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BIO-BASED additives - NEW

DYNOADD BIO F-118 BIO-BASED	Flow and wetting additive - 42% bio-derived content - improves flow/levelling - improves wetting - eliminates craters - anti-foam properties	- Solvent borne	- Industrial coatings - Coil coatings - Automotive - Printing inks - Wood coatings	- silicon-free - defoaming - for multiple-layer coatings - soluble in aromatic hydrocarbons, glycol-ethers, esters, and alcohols - partially soluble in aliphatic hydrocarbons - insoluble in water
DYNOADD BIO F-119 BIO-BASED	Anti-crater additive - 42% bio-derived content - eliminates craters and pinholes - excellent flow/levelling - excellent substrate wetting	- Solvent borne	- Industrial coatings - Coil coatings - Automotive - Printing inks - Wood coatings	- silicone-free - soluble in aromatic hydrocarbons, glycol-ethers, esters, and alcohols - partially soluble in aliphatic hydrocarbons - insoluble in water
DYNOADD BIO F-206 BIO-BASED	Defoamer additive - 44% bio-derived content (47% according to ¹⁴ C-method) - excellent defoaming / air-release - improves flow/levelling - improves wetting	- Solvent borne	- Coil coatings - Wood coatings - General industry	- silicone-free - soluble in aromatic hydrocarbons, glycol-ethers, esters, and alcohols - partially soluble in aliphatic hydrocarbons - insoluble in water
SEE ALSO DYNOADD F-802 IN CHAPTER “MULTI-FUNCTIONAL FLOW ADDITIVES”				

- **DYNOADD BIO** additives are produced using raw materials with total or partial biomass origin
- The bio-based content is calculated according to EN 16785-2 for the “Determination of the bio-based content using the material balance method”
- The mass balance content is expressed as “percentage weight on weight”

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Flow and levelling additives

DYNOADD F-1	Excellent allrounder flow- and anti-crater additive. Allrounder with very well-balanced performance <ul style="list-style-type: none"> - improves flow/levelling - improves wetting - eliminates craters, cissing, pinholes and overspray-craters 	- Solvent borne	<ul style="list-style-type: none"> - Industrial coatings - Coil coatings - Automotive - Printing inks - Wood coatings 	<ul style="list-style-type: none"> - VOC-free - silicon-free - defoaming - excellent choice for multiple-layer coatings
DYNOADD F-100	Flow- and wetting additive, very good compatibility <ul style="list-style-type: none"> - improves flow/levelling - improves wetting - eliminates, craters, cissing, pinholes and overspray-craters - compatible with polar systems 	- Solvent borne	<ul style="list-style-type: none"> - Industrial coatings - Coil coatings - Can coatings - Automotive - Printing inks - Wood coatings 	<ul style="list-style-type: none"> - VOC-free - silicone-free - is more compatible with film-forming resins than DYNOADD F-1 - gives improved performance in polar systems - can be used in all layers of multi-layered coatings
DYNOADD F-101	Flow- and wetting additive, very good compatibility <ul style="list-style-type: none"> - improves flow/levelling - improves wetting - eliminates, craters, cissing, pinholes and overspray-craters - compatible with polar systems 	<ul style="list-style-type: none"> - Solvent borne - UV-curing 	<ul style="list-style-type: none"> - Industrial coatings - Coil coatings - Automotive - Printing inks - Wood coatings - UV-coatings 	<ul style="list-style-type: none"> - VOC-free - silicone-free - DYNOADD F-101 is more polar than DYNOADD F-100. - the higher polarity gives better pigment- wetting and improved adhesion - can be used in all layers of multi-layered coatings
DYNOADD F-102	Flow additive with very good antifoam properties <ul style="list-style-type: none"> - improves flow/levelling - improves wetting - eliminates craters and pinholes - antifoaming 	- Solvent borne	<ul style="list-style-type: none"> - Industrial coatings - Coil coatings 	<ul style="list-style-type: none"> - 80% in DPM (dipropyleneglycol-monomethyl ether) - silicone-free - good combination with DYNOADD F-1 - limited compatibility - can be used in all layers of multi-layered coatings

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DYNOADD F-106	Flow additive with excellent transparency, especially for clear coatings - improves flow/levelling - eliminates orange peel, craters and popping	- Solvent borne	- Automotive OEM clear-coats	- 50% in DPM (dipropyleneglycol-monomethyl ether) - silicone-free - improves flow/levelling without affecting transparency - good DOI (Distinctness of Image)
DYNOADD F-112	Higher polymeric flow and anti-crater additive - improves flow/levelling - improves wetting - eliminates craters, bubbles, pinholes and overprint-craters - antifoaming	- Solvent borne	- Industrial coatings - Coil coatings - Automotive - Wood coatings	- 80% in DPM (dipropyleneglycol-monomethyl ether) - silicone-free - can be used in all layers of multi-layered coatings
DYNOADD F-201ND	Flow additive with antifoam properties - improves flow/levelling - eliminates craters, orange peel and pinholes - aids air-release and reduces foam - prevents flooding and floating	- Solvent borne	- Industrial coatings - Coil coatings - Wood coatings	- 80% in Solvesso 150ND - silicone-free - limited compatibility - can be used in all layers of multi-layered coatings
DYNOADD F-404	Flow- and wetting additive with increased slip and high gloss effect - improves flow/levelling - improves gloss - improves wetting and slip - eliminates craters and overspray creators	- Solvent borne - UV-curing	- Industrial coatings - Automotive - Wood coatings - UV-coatings	- 50% in DPM (dipropyleneglycol-monomethyl ether) - siloxane-modified
DYNOADD F-409	Flow- and wetting additive for UV-coatings - improves flow/levelling - improves gloss - improves wetting and slip - eliminates craters and orange peel	- UV-curing	- Industrial coatings - Wood coatings - UV-coatings	- VOC-free - siloxane-modified

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DYNOADD F-414 B	Flow- and wetting additive <ul style="list-style-type: none"> - improves slip significantly - improves mar resistance - eliminates overspray-craters Ideal in combination with DYNOADD F-100	<ul style="list-style-type: none"> - Solvent borne - Solvent free 	<ul style="list-style-type: none"> - Industrial coatings - Automotive - Wood coatings 	<ul style="list-style-type: none"> - 60% in BGA (butylglycolacetate) - siloxane-modified - not soluble in water
DYNOADD F-461 NEW	Flow- and wetting additive with increased slip and defoaming <ul style="list-style-type: none"> - reduces surface tension - very good wetting - slip improvement giving increased scratch and mar resistance - prevents defects - for wood and direct to metal coatings 	<ul style="list-style-type: none"> - water based systems - solvent based systems - solvent-free systems - Acrylic resin systems - PUD's - Epoxy 	<ul style="list-style-type: none"> - industrial coatings - wood coatings - automotive coatings 	<ul style="list-style-type: none"> - 100% polymer liquid - polyether-polysiloxan based - SVHC-free - partially soluble in water - soluble in alcohols, glycol ethers and acetates - insoluble in mineral spirits
DYNOADD F-601	Flow- and wetting additive <ul style="list-style-type: none"> - improves flow/levelling - eliminates craters, overspray-craters, pinholes and fisheyes 	<ul style="list-style-type: none"> - Water borne - UV-curing - Solvent borne, highly polar 	<ul style="list-style-type: none"> - Industrial coatings - Automotive - Wood coatings - UV-coatings 	<ul style="list-style-type: none"> - 50% in DPM (dipropyleneglycol-monomethyl ether) - silicone-free - can be used in all layers of multi-layered coatings - not neutralized
DYNOADD F-603	Flow- and wetting additive with low foam formation <ul style="list-style-type: none"> - improves flow/levelling - improves wetting - eliminates craters, pinholes and fisheyes - low foam formation 	<ul style="list-style-type: none"> - Water borne - UV-curing 		
DYNOADD F-606	Non-foaming substrate wetting agent for water-based systems <ul style="list-style-type: none"> - improves substrate wetting - improves pigment wetting - foam de-stabilizing - very wide compatibility - high transparency 	<ul style="list-style-type: none"> - water based - UV-curing 	<ul style="list-style-type: none"> - water based primers - automotive primers and basecoats - water based UV-coatings - printing inks - architectural paints - water based adhesives 	<ul style="list-style-type: none"> - non-ionic - 50% in DPM (Dipropyleneglykol-monomethyl ether) - silicone-free - water soluble - very easy handling / incorporation (even to the finished paint)

PRODUCTNAME	DESCRIPTION	PAINT SYSTEMS	APPLICATION	SPECIAL FEATURES
DYNOADD F-608	Non foaming wetting and levelling additive for water-based systems <ul style="list-style-type: none"> - improves flow/levelling - improves wetting - eliminates craters, pinholes and fisheyes - no foam formation - very wide compatibility - high transparency 	<ul style="list-style-type: none"> - water based - UV-curing 	<ul style="list-style-type: none"> - Industrial coatings - Automotive - Wood coatings - water based UV-coatings - Acrylic dispersions - PU dispersions - water dilutable alkyd-polyester- and epoxy-resins 	<ul style="list-style-type: none"> - 50% in DPM (Dipropyleneglykol-monomethyl ether) - silicone-free - water soluble - very easy handling / incorporation (even to the finished paint)

For more information about your target-application visit also: www.dynoadd.com/product-selector/

Antifoam- and air-release additives

DYNOADD F-470	Highly effective degassing agent for clear thick film applications <ul style="list-style-type: none"> - no haze - prevents foam formation - air-releasing and anti-popping - eliminates air-entrapment, pinholes and surface foam - improves flow and slip 			<ul style="list-style-type: none"> - 3% in 2-ethyl-hexyl acetate - Fluoro modified - Silicone modified - does NOT reduce transparency - for clear/transparent thick film applications
DYNOADD F-471	Highly effective degassing agent for clear thick film applications <ul style="list-style-type: none"> - no haze - prevents foam formation - air-releasing and anti-popping - eliminates air-entrapment and pinholes - improves flow and slip - especially suitable for airmix and airless - spray applications 	<ul style="list-style-type: none"> - Solvent borne - Solvent free 	Thick-film applications like: <ul style="list-style-type: none"> - Floor coatings - Castings - Molding based on 2K epoxies, unsaturated PE's, 1K- and 2K PU's 	<ul style="list-style-type: none"> - 3% in butyl-acetate - Fluoro modified - Silicone modified - does NOT reduce transparency - for clear/transparent thick film applications

PRODUCTNAME	DESCRIPTION	PAINT SYSTEMS	APPLICATION	SPECIAL FEATURES
DYNOADD F-701B	Antifoam concentrate - eliminates foam - air-releasing and anti-popping - eliminates craters and orange peel	- Solvent borne - Solvent free	- Coil coatings - Industrial coatings - Packagings - PVDF-systems	- VOC-free - silicone-free - can be used in all layers of multi-layered coatings - very good compatibility with wax dispersions, even at high wax concentration levels
DYNOADD F-707	Antifoam- and air-release agent - eliminates foam - air-releasing - anti-popping Ideal in combination with flow- and levelling additive DYNOADD F-101	- Solvent borne	- Coil coatings - PVdF-systems - Industrial coatings - Packagings	- 28% in 2-ethyl-hexal acetate - silicon-free - corresponds to DYNOADD F-705 dissolved in 2-Ethyl-hexal acetate - can be used in all layers of multi-layered coatings - very good compatibility with wax-dispersions, even at high wax-concentration levels
DYNOADD F-708	Antifoam concentrate with good compatibility - eliminates foam - air-releasing and anti-popping - eliminates craters and orange peel - improves flow/levelling Ideal in combination with flow- and levelling additive DYNOADD F-101	- Solvent borne - Water borne - UV-curing	- Coil coatings - Industrial coatings - Packagings - PVDF-systems - Printing inks - UV-coatings	- VOC-frei - silicone-free - can be used in all layers of multi-layered coatings - very good compatibility with wax-dispersions, even at high wax-concentration levels - better compatibility as DYNOADD F-705
DYNOADD F-709	Antifoam concentrate with good compatibility - eliminates foam - air-releasing and anti-popping - eliminates craters and orange peel - improves flow/levelling Ideal in combination with flow- and levelling additive DYNOADD F-101	- Solvent borne	- Coil coatings - Industrial coatings - Packagings - PVdF-systems	- 28% in 2-ethyl-hexyl acetate - silicon-free - corresponds to DYNOADD F-708 dissolved in 2-Ethyl-hexal acetate - can be used in all layers of multi-layered coatings - very good compatibility with wax-dispersions, even at high wax-concentration levels

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DYNOADD F-711	Anti-popping and antifoam concentrate with excellent compatibility <ul style="list-style-type: none"> - eliminates foam - air-releasing - anti-popping - improves flow/levelling 	<ul style="list-style-type: none"> - Solvent borne - Solvent free 	<ul style="list-style-type: none"> - Industrial coatings - Coil coatings - Automotive 	<ul style="list-style-type: none"> - VOC-free - silicone-free - better compatibility as DYNOADD F-705 - excellent as anti-popping agent
DYNOADD F-712	Anti-popping and antifoam concentrate with excellent compatibility <ul style="list-style-type: none"> - eliminates foam - air-releasing - anti-popping - improves flow/levelling 	<ul style="list-style-type: none"> - UV-curing 	<ul style="list-style-type: none"> - UV-coatings 	<ul style="list-style-type: none"> - 50% in 2-ethyl-hexyl acrylate - silicone-free - corresponds to DYNOADD F-711 dissolved in 2-ethyl-hexyl acrylate - can be used in all layers of multi-layered coatings - excellent as anti-popping agent
DYNOADD F-713	Antifoam additive for thick film applications <ul style="list-style-type: none"> - eliminates foam - air-release - anti-popping - eliminates pinholes 	<ul style="list-style-type: none"> - Solvent borne - Solvent free 	Thick-film applications like: <ul style="list-style-type: none"> - Floor coatings - Castings - Molding based on 2K epoxies, unsaturated PE's, 1K- and 2K PU's	<ul style="list-style-type: none"> - VOC-free - silicone-free - may reduce film transparency - preferably for pigmented systems
DYNOADD F-760	Defoamer additive <ul style="list-style-type: none"> - prevents foam - rapid destabilization and destruction of foam - incorporation even without high shear forces - Can also be used for pigment dispersion 	<ul style="list-style-type: none"> - aqueous systems - 2K NCO systems 	<ul style="list-style-type: none"> - aqueous paints, varnishes and coatings 	<ul style="list-style-type: none"> - Polymer solution in alcohol and hydrocarbon solvent - silicone-free - free of mineral oil - Surface remains overprintable - insoluble in water but very soluble in solvents such as hydrocarbons, glycol ethers, esters and alcohols

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Multifunctional flow-additives

DYNOADD F-113	Flow additive with pronounced crosslinking density <ul style="list-style-type: none"> - eliminates significantly dirt pickup - excellent anti-blocking - improves release properties of film - improves anti-graffiti properties - eliminates craters, orange peel and pinholes 	- Solvent borne	<ul style="list-style-type: none"> - Coil coatings - Heat-set topcoats 	<ul style="list-style-type: none"> - 70% in DPM (dipropyleneglycol-monomethyl ether) - silicone-free
DYNOADD F-430	Flow- and wetting additive <ul style="list-style-type: none"> - improves scratch resistance - improves anti-blocking - improves dirt pickup - anti-popping - eliminates craters and orange peel 	- Solvent borne	<ul style="list-style-type: none"> - Coil coatings - Solvent borne topcoats 	<ul style="list-style-type: none"> - 60% in DPM (dipropyleneglycol-monomethyl ether) and solvent naphtha 150ND - not compatible in PU formulations - PTFE-wax modified
DYNOADD F-800	Multifunctional adhesion-promoting flow additive <ul style="list-style-type: none"> - improves significantly adhesion to PU-foams - eliminates orange peel, craters and pinholes 	- Solvent borne	<ul style="list-style-type: none"> - Coil coatings - PU coatings 	<ul style="list-style-type: none"> - 65% in solvent naphtha 150 / dibasic ester (1:1) - surface active polymer with excellent adhesion to PU-foams - silicone-free - can be used in all layers of multilayered coatings
DYNOADD F-802 BIO-BASED	Multifunctional adhesion promoting flow additive <ul style="list-style-type: none"> - 25% Bio-derived (¹⁴C-methode) - improves significantly adhesion to next isocyanate-paint or adhesive layer - eliminates orange peel, craters and pinholes 	<ul style="list-style-type: none"> - Solvent borne - overcoatable 	<ul style="list-style-type: none"> - Primer - Coil-coating - PU paints - Baking enamels - Inks 	<ul style="list-style-type: none"> - 72% in solvent naphtha 150 / dibasic ester (1:1) - Surface-active polymer with very good adhesion to next isocyanate paint or adhesive layer - silicone-free

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DYNOADD F-810	Multifunctional adhesion promoting flow additive - improves significantly adhesion of UV-curable printing inks and coatings - eliminates orange peel, craters and pinholes	- Solvent borne - UV-curing	- Coil-coatings - PU coatings - Packagings	- 100% Polymer (liquid) - surface active polymer with excellent adhesion to UV-curable printing inks and coatings - silicone-free

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Flow- and antifoam additives for food contact

DYNOADD F-3B	Anti-crater and flow additive - improves flow/levelling - improves wetting - eliminates craters, cissing and pinholes - defoaming - good dispersion aid for carbon black pigments	- Solvent borne	- Can coatings - Coil coatings - Printing inks - Packagings	- VOC-free - silicone-free - FDA 21 § 175.300 compliant - defoaming - can be used in all layers of multi-layered coatings - low-migration version of DYNOADD F-3
DYNOADD F-300	Flow and levelling polymeric additive - excellent flow and levelling - eliminates craters, cissing and pinholes - compatible with polar systems - improves substrate wetting	- Solvent borne	- Can coatings - Coil coatings - Printing inks - Packagings	- VOC-free - silicone-free - FDA 21 § 175.300 compliant - better compatibility with film-forming systems than DYNOADD F-3B - can be used in all layers of multi-layered coatings
DYNOADD F-705	Foam control additive concentrate - eliminates foam - air-releasing - anti-popping	- Solvent borne - UV-curing	- thick film coatings like: 2K epoxy, UP or PUR.	- VOC-free - silicone-free - food contact compliant up to 0.1% dosage - dissolve in a suitable solvent or UV-monomer before adding - does not influence appearance of UV-coatings

PRODUCTNAME	DESCRIPTION	PAINT SYSTEMS	APPLICATION	SPECIAL FEATURES
DYNOADD F-715	Antifoam- and air-release agent for UV-coatings <ul style="list-style-type: none"> - eliminates foam - air-release - anti-popping 	<ul style="list-style-type: none"> - Solvent borne - UV-curing 	<ul style="list-style-type: none"> - thick film coatings like: 2K epoxy, UP or PUR. 	<ul style="list-style-type: none"> - VOC-free - silicone-free - food contact compliant up to 0.1% dosage - does not influence appearance of UV-coatings

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Dispersing additives

DYNOADD D-960	Dispersing agent primarily for: <ul style="list-style-type: none"> - carbon black pigments - also organic pigments - fast grinding time - low viscosity pigment pastes - high colour strength and gloss - excellent stability 	<ul style="list-style-type: none"> - waterbased, pigmented systems 	<ul style="list-style-type: none"> - water-borne pigment pastes - automotive coatings - industrial coatings - wood coatings - printing inks 	<ul style="list-style-type: none"> - VOC-free - Label-free - silicone free - non-ionic polymer based - Newtonian - 40% in water - fully soluble in water, ethanol, isopropanol and acetone
DYNOADD D-962	Dispersing agent, primarily for: <ul style="list-style-type: none"> - organic pigments - inorganic pigments - also carbon black pigments - low viscosity pigment pastes - high colour strength and gloss - excellent stability 	<ul style="list-style-type: none"> - waterbased, pigmented systems 	<ul style="list-style-type: none"> - water-borne pigment pastes - automotive coatings - industrial coatings - wood coatings - printing inks 	<ul style="list-style-type: none"> - VOC-free - Label-free - silicone free - non-ionic polymer based - 40% in water - fully soluble in water, ethanol, isopropanol and acetone
DYNOADD D-963 NEW	Dispersing agent primarily for: <ul style="list-style-type: none"> - inorganic pigments and fillers - also for organic pigments - excellent viscosity reduction - high colour strength and gloss - excellent stability 	<ul style="list-style-type: none"> - waterbased, pigmented systems 	<ul style="list-style-type: none"> - water-borne pigment pastes - automotive coatings - industrial coatings - wood coatings - printing inks 	<ul style="list-style-type: none"> - VOC-free - label-free - silicone free - polymer mixture - 40% in water - fully soluble in water, ethanol, isopropanol and acetone