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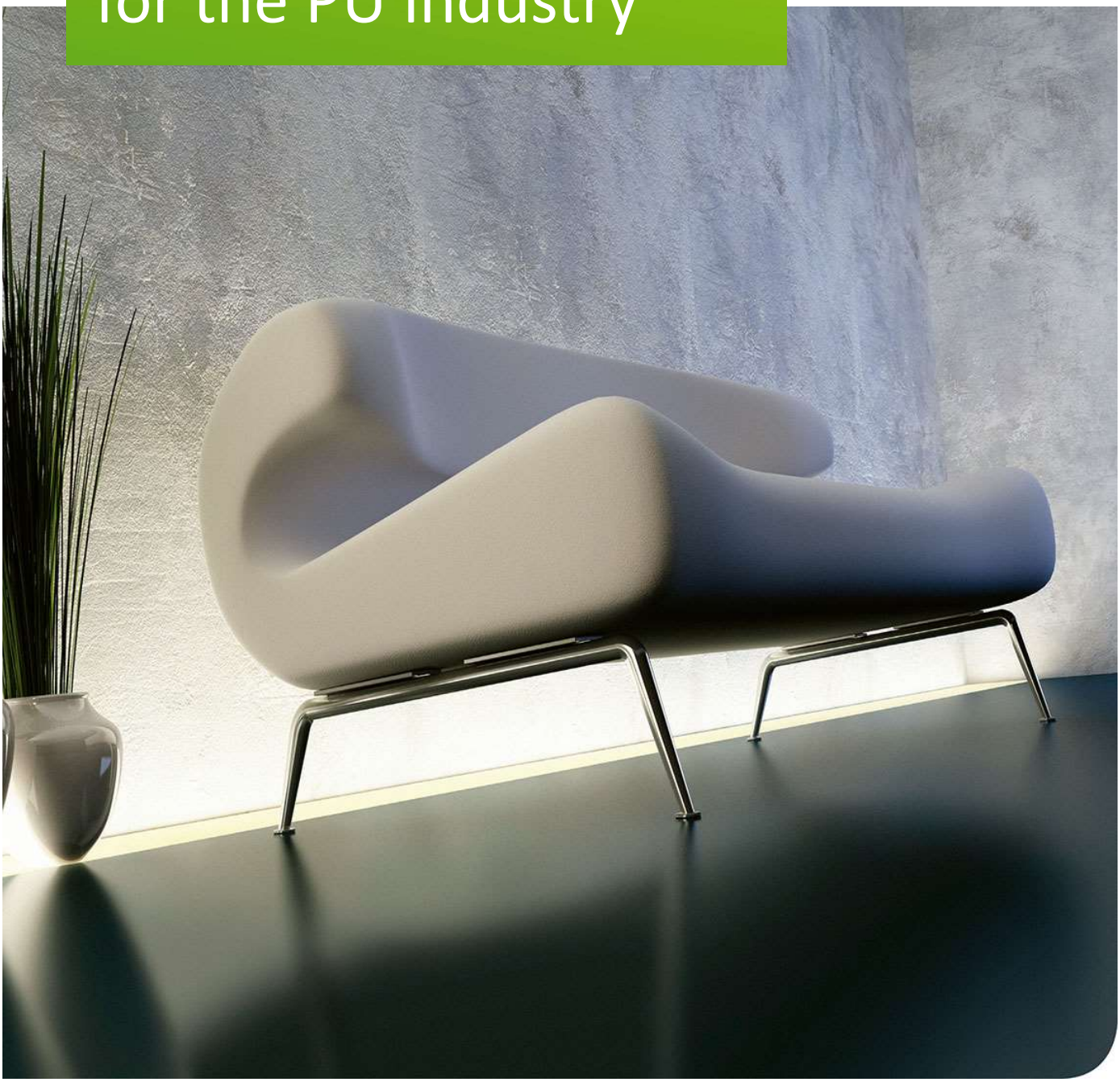
BTC solutions for the PU industry



BTC Europe – BASF’s in-house specialty chemicals distributor BASF. Drawing on the unique advantages of belonging to the world’s leading chemical group, we deliver a portfolio expertly tailored to the needs of over 30 industries.

BTC Europe is BASF’s in-house specialty chemical distributor. Drawing on the unique advantages of belonging to the world’s leading chemical group, we deliver a portfolio expertly tailored to the needs of over 30 industries. BTC’s product portfolio features over 6,000 chemicals from BASF. With local technical sales and customer service support, and access to the 11,000 strong research and development team that drives BASF’s innovation, BTC partners with its customers in a truly unique way. BTC offer a comprehensive portfolio of products for the PU industries including MDI & TDI isocyanates, polyether and polyester polyols, amine catalysts and processing additives for light stabilization, thermal stabilization, anti-statics, flame retardants, cross-linking agents, surfactants and PU dispersions.

Isocyanates

BASF MDI & TDI aromatic isocyanates and polyether polyols are the basic raw materials for production of polyurethane products in the coatings, adhesives, sealants and elastomers industries.

Monomeric MDI	NCO Content (%)	Viscosity (mPa's at 25°C)	Description
Lupranat® ME	33.5	5 (at 42°C)	Pure monomeric 4,4 MDI.
Lupranat® MI	33.5	12	Blend monomeric 4,4' & 2,4'-MDI isomers.
Lupranat® MIP	33.5	12	Blend monomeric 4,4' & 2,4'-MDI isomers (reduced 2,2' content.)
Lupranat® MM 103	29.5	40	Carbodiimide modified 4,4'-MDI. Liquid at room temperature

Polymeric MDI	NCO content (%)	Viscosity (mPa's at 25°C)	Description
Lupranat® M 10 R	31.5	110	Polymeric MDI with lower functionality and higher reactivity.
Lupranat® M 20 R	31.5	220	Polymeric MDI with average functionality and reduced reactivity.
Lupranat® M 20 S	31.5	210	Polymeric MDI with average functionality and reactivity.
Lupranat® M 20 FB	31.5	210	Polymeric MDI with average functionality and higher reactivity.
Lupranat® M 50	31.5	550	Polymeric MDI with higher functionality mainly for rigid foam applications.
Lupranat® M 70 R	31.5	650	Polymeric MDI with higher functionality and lower reactivity.

MDI Prepolymers & Mixtures	NCO Content (%)	Viscosity (mPa's at 25°C)	Description
Lupranat® MP 102	22.9	660	4,4'-MMDI prepolymer for CASE applications.
Lupranat® MP 105	28.5	120	PMDI prepolymer with higher functionality for CASE applications.
Lupranat® MP 109/1	28.3	60	Prepolymer for the production of high resilience, viscoelastic and polyester slab-stock foam.
Lupranat® MP 111/1	20.5	395	MMDI prepolymer for the production of re-bonded foam using the heated steam process.
Lupranat® MX 118/1	32.8	30	Mixture of monomeric and polymeric MDI grades for the production of high resilience, viscoelastic and hyper-soft slab-stock foam.
Lupranat® MX 119/1	33.5	10 (at 35°C)	Mixture of monomeric MDI grades for the preparation of prepolymers used for CASB (coating, adhesives, sealants and binder) applications.
Lupranat® MX 121/1	33.0	19	Mixture of monomeric and polymeric MDI grades for the preparation of prepolymers used for CASB applications.

TDI	NCO content (%)	Viscosity (mPa's at 25°C)	Description
Lupranat® T80 A	48.2	3	Mixture of 80% 2,4- and 20% 2,6-toluene diisocyanate.

Basonat® aliphatic and hydrophilically-modified HDI cross-linkers for high-performance two-component PUR coatings

Product	NCO content (%)	Viscosity (mPa's at 23°C)	Description
Basonat® HA 1000	12-23	900-1500	Low-viscous polyisocyanates for high-solid solvent-based 2K PU coatings.
Basonat® HA 2000	18.5-21.5	500-900	Low-viscous polyisocyanates for high-solid solvent-based 2K PU coatings.
Basonat® HA 3000	18.5-19.5	200-400	Low-viscous polyisocyanates for high-solid solvent-based 2K PU coatings.
Basonat® HW 1000	16.5-17.5	2000-6000	Hydrophilic, fast-drying polyisocyanate for general use in water-based 2K PU.
Basonat® HW 1180 PC	13-14	450-850	Diluted version of Basonat® HW 1000 for faster incorporation in water-based 2K PU systems.
Basonat® HW 2000	17.5-18.5	1500-3000	Easy-mixing version of Basonat® HW 1000.
Basonat® HW 2100	16.9-17.9	2000-3600	All-purpose, hydrophilic polyisocyanate
Basonat® HW 3280 MBA	10.7-12.5	1100-1900	Easy-mixing polyisocyanate
Basonat® HW 4000	18.5-19.5	3200-5200	Solvent free, easy emulsification.
Basonat® HI 100 NG	21.5-22.5	2500-4000	Solvent-free HDI aliphatic polyisocyanate for PU coatings
Basonat® HI 2000 NG	22.5-23.5	900-1500	Low-viscous trimer for high-solid 2K PU coatings.
Basonat® HI 2000 NG MB (mass balance)	22.5-23.5	900-1500	Low-viscous trimer for high-solid 2K PU coatings. A Biomass Balance product certified according to the TÜV NORD certification standard CMS 71.
Basonat® HB 100	22.0-23.0	2500-4000	HDI biuret for general use in 2K PU coatings
Basonat® HB 175 MP/X	16.0-17.0	130-300	HDI biuret for general use in 2K PU coatings. Solvent Methoxypropyl acetate/Xylene 1:1
Basonat® HB 275 B	16.0-17.0	100-180	HDI biuret for general use in 2K PU coatings. Solvent n-Butyl acetate
Basonat® HB 475 B/X	16.0-17.0	100-250	Biuret grade known for general use in 2K PU coatings. Solvent n-Butyl acetate / Xylene

Polyols

Propylene Glycol Polyols	Functionality	OH number (mgKOH/g)	Molecular Weight (g/mol)	Viscosity (mPa's at 25°C)	Description
Lupranol® 1000/1	2	55	2000	325	Linear polypropylene glycol. KOH catalyzed.
Lupranol® 1000/2	2	55	2000	365	Linear polypropylene glycol. DMC catalyzed.
Lupranol® 1005/1	2	28	4000	905	Linear polypropylene glycol. DMC catalyzed.
Lupranol® 1100/1	2	104	1100	155	Linear polypropylene glycol. KOH catalyzed.
Lupranol® 1200	2	248	500	72	Linear polypropylene glycol. KOH catalyzed.
Lupranol® 2004/1	5	42	4000	660	Polypropylene triol. Produced by KOH catalysis.

Reactive Polyether Polyols	Functionality	OH number (mgKOH/g)	Molecular Weight (g/mol)	Viscosity (mPa's at 25°C)	Description
Lupranol® 2007/1	3	27	6000	1225	Reactive polyols for molded and CASE applications.
Lupranol® 2043	2	29	3500	775	Diol reactive polyol for molded applications and CASE.
Lupranol® 2048	3	42	4000	950	Cell opener polyol for flexible foam.
Lupranol® 2090	3	28	6000	1100	Reactive polyol for molded applications and CASE.
Lupranol® 2092	3	28	6000	1090	Reactive polyol for high resilience (HR) slab-stock applications.
Lupranol® 2095	3	35	4800	850	Reactive polyol for molded applications and CASE.

Non-Reactive Polyether Polyols	Functionality	OH number (mgKOH/g)	Molecular Weight (g/mol)	Viscosity (mPa's at 25°C)	Description
Lupranol® 2070	3	53	3000	553	Slab-stock polyol for combustion-modified (CME) foam. DMC catalyzed.
Lupranol® 2072	3	48	3500	540	Slab-stock polyol with emission optimized antioxidant package. Produced by KOH catalysis.
Lupranol® 2074	3	48	3500	600	Conventional slab-stock polyol with scorch-optimized antioxidant package. DMC catalyzed.
Lupranol® 2074/2	3	48	3500	600	Slab-stock polyol with low-emission and scorch-optimized antioxidant package. DMC catalyzed.

Amine-based Polyether Polyols	Functionality	OH number (mgKOH/g)	Molecular Weight (g/mol)	Viscosity (mPa's at 25°C)	Description
Lupranol® 1002/1	4	60	3700	660	Autocatalytic polyol based on ethylenediamine with moderate reactivity for molded and CASE applications.
Lupranol® 3042	4	470	480	4975	Autocatalytic crosslinker based on ethylenediamine for flexible and rigid foams as well as CASE applications.
Lupranol® 3508/1	4	753	300	42000	Autocatalytic crosslinker based on ethylenediamine with high reactivity for rigid foams and CASE applications.

Non-Reactive Polymer Polyols	Functionality	OH number (mgKOH/g)	Molecular Weight (g/mol)	Viscosity (mPa's at 25°C)	Description
Lupranol® 4002/1	31	45	4550	25	Highly filled polymer polyol for HLB and HR slab-stock foam.
Lupranol® 4005/1/SC10	44	10	730	25	Polymer polyol blend with Lupranol 2072 (KOH polyol) for production of HLB slab-stock foam.
Lupranol® 4005/1/SC15	42	15	860	25	Polymer polyol blend with Lupranol 2072 (KOH polyol) for production of HLB slab-stock foam.
Lupranol® 4005/1/SC25	38	25	1300	25	Polymer polyol blend with Lupranol 2072 (KOH polyol) for production of HLB slab-stock foam.

Reactive Polymer Polyols	Functionality	OH number (mgKOH/g)	Molecular Weight (g/mol)	Viscosity (mPa's at 25°C)	Description
Lupranol® 4003/1	20	45	7400	25	Highly filled polymer polyol for HLB and HR slab-stock foam.
Lupranol® 4010/1/SC15	29	15	1525	25	Polymer polyol blend with for production of HLB slab-stock foam.
Lupranol® 4010/1/SC25	26	25	2280	25	Polymer polyol blend for production of HLB slab-stock foam.

Rigid Polyether Polyols & Mixtures	Functionality	OH number (mgKOH/g)	Molecular Weight (g/mol)	Viscosity (mPa's at 25°C)	Description
Lupranol® 3300	3	400	420	373	Standard rigid polyol based on glycerine.
Lupranol® 3422	5	490	570	22775	Standard rigid polyol. Used to adjust hardness in combination with Lupranol 3300.
Lupranol® 3423	5	490	500	8450	Rigid polyol based on sucrose. Excellent balance between viscosity and curing properties.
Lupranol® 3424	4	403	560	2175	Rigid polyol based on sucrose with good crosslinking activity but low viscosity.
Lupranol® 3504/1	3	860	200	5900	Crosslinker based on trimethylolpropane with secondary hydroxyl groups.
Lupranol® 3505/1	3	935	180	2900	Crosslinker based on trimethylolpropane with primary hydroxyl groups.
Lupranol® 2012/1/PX/PVE	53	980			Polyol blend designed to produce pneumatic viscoelastic slab-stock foam.
Lupranol® 2014/1/PX/CVE	177	180			Polyol blend designed to produce chemical viscoelastic (temperature-sensitive) slab-stock foam.

Polyester Polyols	Functionality	OH number (mgKOH/g)	Molecular Weight (g/mol)	Viscosity (mPa's)	Description
Lupraphen® 1600/4	2	56	2000	670 (at 75°C)	Linear polyadipate based on butanediol for CASE applications and TPU.
Lupraphen® 1608/4	2	55	2040	580 (at 75°C)	Linear polyadipate based on monoethyleneglycol for CASE applications
Lupraphen® 1622/1	2	56	2000	575 (at 75°C)	Linear polyadipate for CASE applications.
Lupraphen® 1901/1	3	328	470	3300 (at 25°C)	Aromatic polyester polyol for rigid foam applications.
Lupraphen® 2600/2	3	60	2390	20200 (at 25°C)	Branched polyadipate with reduced reactivity for production of slab-stock foam.
Lupraphen® 2601/1	2	53	2400	18100 (at 25°C)	Slightly branched polyadipate with improved scorch resistance for the production of slab-stock foam.
Lupraphen® 2602/1	3	59	2470	21650 (at 25°C)	Branched polyadipate with reduced emissions for production of slab-stock foam.
Lupraphen® 2901/1	3	223	650	20250 (at 25°C)	Branched polyester for improved cutting of slab-stock foams.
Lupraphen® 5606/1	2	47	2400	750 (at 75°C)	Linear polyadipate based on monoethyleneglycol and diethyleneglycol for CASE and footwear applications.
Lupraphen® 5608/1	2	56	2000	525 (at 75 C)	Linear polyadipate based on monoethyleneglycol and diethyleneglycol for CASE and footwear applications.
Lupraphen® 5619/1	3	60	2500	1150 (at 75°C)	Branched polyadipate based on monoethyleneglycol and diethyleneglycol for CASE and footwear applications.
Lupraphen® 6601/3	2	55	2040	625 (at 75°C)	Linear polyadipate based on monoethyleneglycol and butanediol for CASE applications.

Natural oil-based polyether and polyester polyols

Sovermol® products are polyfunctional alcohols made of renewable raw materials such as rapeseed oil, castor oil, soybean oil and palm kernel oil.

Polyether/ester Polyols	Functionality	Medium OH value	Medium viscosity (mPa's 25°C)	Description
Sovermol® 45	4.0	570	3000	Branched polyether
Sovermol® 100	3.0	880	6000	Branched polyether
Sovermol® 320	2.8	310	1000	Branched polyether
Sovermol® 750	3.0	315	1100 (at 20°C)	Branched polyether/ester
Sovermol® 760	3.5	390	2300	Branched polyether/ester
Sovermol® 780	3.0	510	2300	Branched polyether/ester
Sovermol® 805	3.5	170	3500	Branched polyether/ester
Sovermol® 810	3.3	230	900	Branched polyether/ester
Sovermol® 815	3.5	215	1600	Branched polyether/ester
Sovermol® 818	2.6	236	750	Fatty-chemistry polyester
Sovermol® 819	2.6	240	850	Fatty-chemistry polyester
Sovermol® 830	2.9	241	1250	Branched oleochemical polyether / ester
Sovermol® 860	2.5	210	530 (at 20°C)	Aliphatic polyol
Sovermol® 908	2.0	206	2300	Aliphatic dimer alcohol
Sovermol® 1005	2.2	122	800 (at 20°C)	Slightly branched aliphatic diol
Sovermol® 1006		60	8500 (at 20°C)	Polyester diol
Sovermol® 1014	2.5	160	700	Aliphatic triol
Sovermol® 1055	-	Ep content 4.6 -5.0%	15 (at 20°C)	Fatty acid ester with epoxy groups.
Sovermol® 1058	-	-	5 (at 20°C)	Fatty acid ester
Sovermol® 1092	2.8	283	800	Branched polyether/ester
Sovermol® 1093	2.8	229	2500	Branched Polyether/ester
Sovermol® 1102	2.1	230	400 (at 20°C)	Slightly branched polyether/ester
Sovermol® 1140	2.7	210	1000	Fatty chemistry polyester

Amine catalysts for PU foam

PU catalysts are typically tertiary amines, which are required to facilitate the reaction of the isocyanate and polyol components for foam production. Catalyst choice helps enhance the gelling or blowing reaction as required.

Polyurethane catalysts	CAS
Lupragen® N 100 (DMCHA)	98-94-2
Lupragen® N 101 (DMEA)	108-01-0
Lupragen® N 105 (NMM) low VOC	109-02-4
Lupragen® N 106 (DMDEE)	6425-39-4
Lupragen® N 107 (DMAEE)	1704-62-7
Lupragen® N 201 (TEDA-DPG) low VOC	280-57-9
Lupragen® N 203 (TEDA-MEG)	280-57-9
Lupragen® N 205 (BDMAEE)	3003-62-3
Lupragen® N 500 (TMHDA) low VOC	111-18-2
Lupragen® N 600 (S-TRIAZINE)	15875-13-5
Lupragen® N 700 (DBU)	6674-22-2
Lupragen® API	5036-48-6
Lupragen® DMI low VOC	1739-84-0
Lupragen® NMI	616-47-7

Imidazoles

Imidazoles are fast cure catalysts for homopolymerisation with excellent high temperature properties and chemical resistance.

Imidazole	CAS
1-Methylimidazole	616-47-7
2-Methylimidazole	693-98-1
1,2-Dimethylimidazole	1739-84-0
2-Ethylimidazole	1072-62-4
2-Ethyl 4-Methylimidazole	931-36-2
3-Aminopropylimidazole	5036-48-6
N-Vinylimidazole	1072-63-5

Additives for the PU Industry

A range of additives including formulation additives, light stabilisers, thermal processing aids and stabilisers, cross-linkers and chain extenders, anti-statics, plasticisers, flame retardants and dispersions.

Product	Chemistry	Function
Basionics® Efka® IO	Ionic liquids mainly based on imidazolium cations	Anti-statics
Efka® FA, PA, PU and PX	Low and high molecular weight dispersants including solvent-free.	Dispersing agents (non-aqueous)
Efka® PB and SI	Silicone-free polymer and silicone-based defoamers	Defoamers (non-aqueous)
Dispex®® Ultra	Polymeric, oligomeric and surfactant-based dispersing agents	Dispersing agents (aqueous)
Foamaster® Foamstar®	Silicone and silicone-free options as well as hyperbranched star-polymer structures	Defoamers (aqueous)
Hydropalat®	Alkoxylated, silicone and polyacrylate wetting agents	Substrate wetting (aqueous)
Rheovis®	Non-ionic associative (HEUR/HMPE,) anionic associative (HASE) and non-associative (ASE) thickener technologies	Synthetic rheology modifiers (aqueous)
Irgastat®	Polymeric systems based on polyamide / polyether block amides	Anti-static
Pluriol® E	Polyethyleneglycol (PEG)	Chain extender
Pluriol® P	Polypropyleneglycol (PPG)	Chain extender
Pluronic® PE	EO-PO block copolymer	Chain extender
Quadrol® L	Ethylenediamine +4 PO	Cross-linker
Pluriol® A 3 TE	Trimethylolpropane + 3 EO	Cross-linker
Pluriol® A 16 TE	Glycerol + 15 EO	Cross-linker
Larotact® 150	Trisalkoxycarbamatotriazin (TACT)	Cross-linker
Chimassorb®	High molecular weight HALS	Light stabilizer
Tinuvin®	Benzotriazole and Triazine absorbers and Hindered Amine light stabilisers	UV absorbers and HALS Light stabilizer
Uvinul®	Benzophenone, benzotriazole, cyanoacrylate light stabilisers and monomeric & oligomeric sterically hindered amines	UV absorbers and HALS Light stabilizer
Irgafos®	Hydrolytically stable phosphite	Secondary anti-oxidants
Irgastab® PUR 70	BHT/amine-free blend	Thermal stabilizer (anti-scorch)
Irganox®	Phenolics	Primary anti-oxidants
Melamine	Melamine	Flame retardant
Melapur®	Melamine phosphates and cyanurates	Flame retardant
Joncryl® HYB	PU-acrylic hybrid	PU Dispersion
Basonol®	Hyperbranched polyester polyol	PU dispersion
Joncryl® U	PU-acrylic hybrid	Dispersion

Agnique® AMD 3L	N,N dimethyl lactamide, readily biodegradable, based on renewable resources	Vessel cleaning
Palatinol® N	Di isononyl phthalate	Phthalate plasticizer
Palatinol® N BMB (bio-mass balance)	Biomass balanced plasticizer for sustainable formulations	Phthalate plasticizer
Hexamoll® DINCH	1,2-Cyclohexane dicarboxylic acid diisononyl ester	Non-Phthalate plasticizer
PolyTHF®	Polytetrahydrofuran	Diluent modifier
PolyTHF® 1000 (bio-based)	Polytetrahydrofuran	Diluent modifier

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