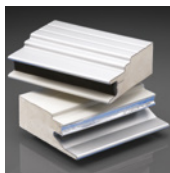
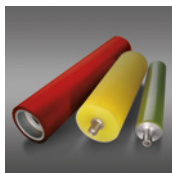


QUALITY PERFORMS.



Solutions for versatile applications

Additives for polyurethanes



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LANXESS
Energizing Chemistry

ADDITIVES FOR POLYURETHANES

Product	Chemical description	Rigid foam				Flexible foam		
		Slab	Panels	Spray	Appliance & pipe insulation	Slab-ester	Slab-ether	Molded-integral
Catalysts								
Addocat® DB	Benzylidimethylamine (BDMA)	■	■		■	■		
Addocat® PP	Blend of tertiary amines		■		■	■		
Addocat® SO	Tin(II) 2-ethylhexanoate (SO)			■		■	■	■
Addocat® 10/9	Aminoalkanol ester							
Addocat® 102	N-Methylimidazole (NMI)		■		■	■		
Addocat® 105	Triethylenediamine (TEDA) in DPG	■	■	■	■		■	■
Addocat® 106	Triethylenediamine (TEDA) in BDO							
Addocat® 108	Bis(2-dimethylaminoethyl)ether (BDMAEE) in DPG	■	■	■	■		■	■
Addocat® 117	1,4-Dimethylpiperazine (DMP)	■	■		■	■		
Addocat® 118	2,2-Dimorpholinodiethylether (DMDEE)			■	■	■	■	■
Addocat® 201	Dibutyltin dilaurate (DBTDL)			■			■	■
Addocat® 726 B	Dimethylcyclohexylamine (DMCHA)	■	■	■	■			
Addocat® 1221 VN	Blend of tertiary amines in a polyether polyol	■	■					
Addocat® 1656 N	Blend of DBTDL, triethylamine and an emulsifier	■						
Addocat® 1926	Blend of tertiary amines in a polyether polyol	■	■		■			
Addocat® 9727 P	Blend of tertiary amines						■	■
Organic Surfactants								
Addovate® DD 1092	Ionic emulsifier							
Addovate® EM	Non-ionic emulsifier					■		
Addovate® SM optimized	Ionic emulsifier	■	■	■	■	■		
Addovate® SV	Ionic emulsifier					■		
Addovate® TX	Ionic emulsifier					■		
Addovate® WM	Non-ionic emulsifier					■		
Addovate® 3240	Non-ionic emulsifier					■		
Curatives								
Addolink® B	1,4-Butandiol (BDO)							■
Addolink® H EP	1,4-Butandiol (BDO) with special retarder							
Addolink® THPE	1,1,1-Tris-(p-hydroxyphenyl)ethane							
Addolink® TT	Dimeric toluene-2,4-diisocyanate							
Addolink® 1604	Isobutyl 4-chloro-3,5-diaminobenzoate (CDABE)							
Addolink® 1701	Diethyltoluenediamine (DETDA)							
Addolink® 1705	Dimethylthiolenediamine (DMTDA)							
Addolink® 9823	Blend of chain extenders							
HQEE*	Hydroquinone bis(2-hydroxyethyl)ether (HQEE)							
Hydrolysis Stabilizers								
Stabaxol® I	Monomeric carbodiimide							
Stabaxol® L	Monomeric carbodiimide							
Stabaxol® P 200	Polymeric carbodiimide					■		
Stabaxol® P	Polymeric carbodiimide							
Stabaxol® P 100	Polymeric carbodiimide							
Flame retardants								
Disflamoll® DPK	Cresyl diphenyl phosphate	■	■					
Disflamoll® DPO	2-Ethylhexyl diphenyl phosphate							
Disflamoll® TOF	Tris(2-ethylhexyl) phosphate							
Disflamoll® 5 1036	Phosphate ester blend							
Disflamoll® 5 1092	Butylated triphenyl phosphate					■	■	■
Emerald Innovation™ NH-1	Proprietary					■	■	■
Firemaster® 600 / 602	Tetrabromobenzoate ester composition					■	■	■
Levagard® DMPP	Dimethylpropane phosphonate	■	■					
Levagard® PP	Tris(2-chloroisopropyl) phosphate (TCPP)	■	■	■			■	
Levagard® TEP-Z	Triethyl phosphate	■	■	■				
Levagard® TP LXS 51078	Oligomeric phosphate ester		■			■	■	■
Levagard® TP LXS 51114	Phosphorus compound					■	■	■
Levagard® TP LXS 51135	Oligomeric phosphate ester					■	■	■
Levagard® 4090 N	Phosphonate ester	■	■	■				
PHT-4-Diol™	Tetrabromophthalate diol	■	■	■				
Reofos® 35	Isopropylated triphenyl phosphate		■					
Reofos® 50	Isopropylated triphenyl phosphate		■			■	■	■
Reofos® 65	Isopropylated triphenyl phosphate		■			■	■	■
Reofos® 95	Isopropylated triphenyl phosphate		■					
Uniplex FRP-45	Bis(2-ethylhexyl) tetrabromophthalate							
Uniplex FRX 44-94	Nitrogen and phosphorus containing blend							
Plasticizers								
Adimoll® DO	Bis(2-ethylhexyl) adipate							
Mesamoll® / Mesamoll® II	Alkylsulfonic phenyl ester							
Ultramoll® VII	Adipic acid polyester							
Other PUR additives								
Addovate® BA	Aqueous polyurethane dispersion							■
Addovate® LP	Alkali aluminium silicate in castor oil							
Addovate® Thermostab	Aromatic ester of phosphoric acid							
Addovate® 390	Polyether modified polysiloxane	■	■		■			
Potlife Enhancer II	Organic acid chloride in Mesamoll® II							

* available under several trade names

Elastomers	Coatings	Adhesives	Sealants	Special characteristics
				Moderate activity universal gelling co-catalyst, good emulsifier
		■	■	Balanced catalyst, improves flowability, soluble in water
		■		Standard strong gelling catalyst, essential for flexible foam
		■		Moderate activity gelling catalyst, especially useful for wood coatings
		■		Blowing catalyst, improves adhesion to facings in rigid foam panels
		■	■	Strong multi-purpose gelling catalyst
		■	■	Strong gelling catalyst for BDO-cured systems, e. g. footwear
		■		Standard strong blowing catalyst for rigid and flexible foams, improves flowability
		■		Latent gelling co-catalyst, improves solubility and surface cure
		■	■	Selective blowing catalyst for 1K systems, improves shelf-life
■	■	■	■	Standard strong multi-purpose gelling catalyst
				Standard balanced catalyst for rigid foam, applicable to PIR formulations
				Balanced catalyst for rigid foam, applicable to PIR formulations
				Strong balanced catalyst for rigid slabstock foam, applicable to PIR formulations
				Balanced catalyst for rigid foam with improved metering compared to 726 B
				Strong blowing surface-active catalyst for flexible foam
			■	Emulsifier for cellular elastomers (e. g. Vulkollan), extends cream time
				Strong emulsifier & dispersant, improves open-cell structure
		■		Aqueous emulsifier and foam stabilizer, prevents splits
		■		Aqueous emulsifier for cellular elastomers
				Strong foam stabilizer, promotes fine even cell structure
			■	Strong emulsifier & dispersant, prevents cell structure defects
				Emulsifier for low-odor foams (urea catalysis), improves open-cell structure
■	■	■	■	Standard chain extender for MDI-based systems
■				Modified BDO for high hardness applications, extends pot life
				Branching agent in PC. Can be used in high temperature PUR adhesives
■				Multifunctional crosslinking agent
■				Long pot life, suitable for large volume articles. Good MBOCA substitute
■	■			Short pot life, mainly used for RIM applications
■	■			Medium pot life. Good MBOCA substitute
■				Special diamine / diol chain extender blend
■			■	Improves heat resistance, compression set & abrasion. Especially apt for TPU
■			■	Excellent extension of material service life
■			■	Excellent extension of material service life, liquid
■			■	Excellent extension of material service life, liquid, water soluble, high thermal stability
■			■	Excellent extension of material service life, solid, high thermal stability
			■	Excellent extension of material service life, solid, high thermal stability
■			■	General purpose flame retardant
			■	FDA approval
			■	Excellent low temperature performance
			■	Good low temperature performance
			■	General purpose flame retardant
			■	Low scorch
			■	Low scorch
■			■	High flame retardant efficiency
■			■	Standard flame retardant for all types of rigid PUR foam
■			■	Effective viscosity reducer
			■	Low fogging
				Low emissions
			■	Low emissions
■				Reactive
				Reactive flame retardant for all types of rigid PUR foam
■			■	General purpose flame retardant
■			■	General purpose flame retardant
■			■	General purpose flame retardant
			■	Low volatility
			■	Used in 1K construction adhesives
■			■	Low water solubility
			■	Non-phthalate plasticizer with high lightfastness and low-temperature flexibility
			■	Non-phthalate plasticizer with high saponification resistance
			■	Non-phthalate polymeric plasticizer with high migration & extraction resistance
				Bonding agent, improves adhesion of rigid integral skin foam to metal
			■	Drying agent for solvent-free polyurethane systems
			■	Stabilization of TPU, PC/ABS, PA/ABS, ABS & PA vs.thermo-oxidative degradation
				Non-hydrolyzable foam stabilizer for rigid foam with medium to high activity
			■	Delays the chemical reaction / crosslinking of isocyanates



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