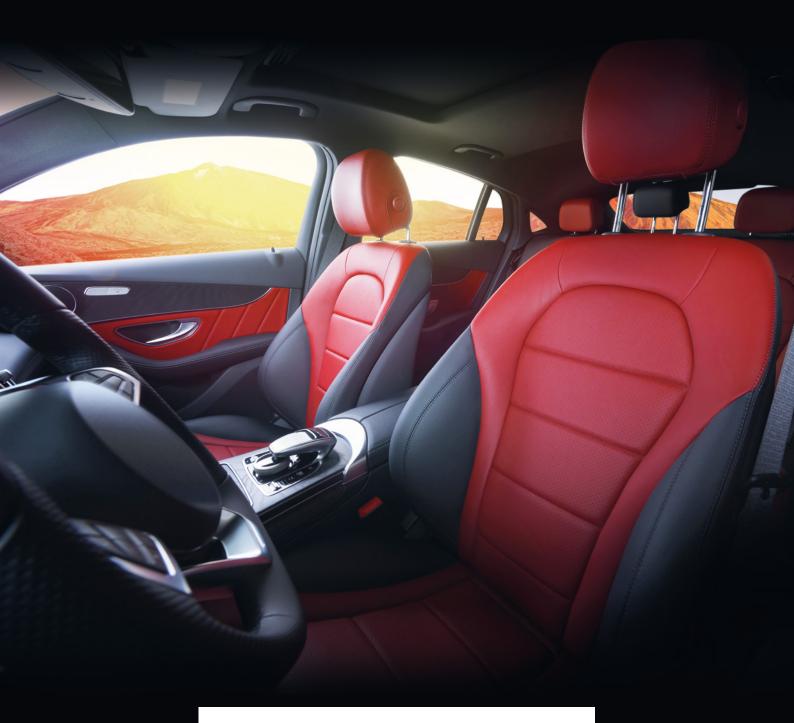
QUALITY PERFORMS.



Solutions for versatile applications

Additives for polyurethanes

QUALITY WORKS.



ADDITIVES FOR

POLYURETHANES

Product	Chemical description	Rigid foam					Flexible fo	am
		Panels & Bunstock	Spray Foam	Appliance & Pipe Insulation	1 K	Slab- ester	Slab- ether	Molded integra
Flame Retardants								
Amgard® CU	Organic phosphonate							
Disflamoll® 51036	Phosphate ester blend							
Disflamoll® 51092	Butylated triphenyl phosphate	•						
Disflamoll® DPK	Cresyl diphenyl phosphate							
Disflamoll® DPO	2-Ethylhexyl diphenyl phosphate							
Disflamoll® TKP	Tricresyl phosphate							
Disflamoll® TOF	Tris(2-ethylhexyl) phosphate							
Emerald Innovation™ NH-1	Phosphorus compound							
Firemaster® BZ-54*	Tetrabromophthalic anhydride derivative							
Firemaster® 504/508*	Tetrabromophthalate diol blend							
Firemaster® 600/602*	Tetrabromobenzoate ester composition	_	_					
Firemaster® 2100R	Decabromodiphenyl ethane							
Levagard® 2100	Reactive phosphorus compound	_						
Levagard® 3000	Oligomeric phosphate ester							
Levagard® 4090 N	N,N-hydroxyethylaminoethane phosphonic acid ester					_	_	_
Levagard® DMPP	Dimethylpropane phosphonate							
Levagard® PP	7		-		-			
	Tris(2-chloroisopropyl) phosphate (TCPP)		- 1		-		_	
Levagard® TEP-Z	Triethyl phosphate	_	_			_	_	_
Levagard® TP LXS 51114	Phosphorus compound	_	_			•	•	_
PHT4-Diol™	Tetrabromophthalate diol	_	_					
PHT4-Diol™ LV	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	N and P containing powder blend							
Catalysts								
Addocat® DB	Benzyldimethylamine (BDMA)	_						
Addocat® PP	Blend of tertiary amines							
Addocat® SO	Tin(II) 2-ethylhexanoate (SO)							
Addocat® 10/9	Aminoalkanol ester							
Addocat® 105	Triethylenediamine (TEDA) in DPG			•			_	
Addocat® 108	Bis(2-dimethylaminoethyl)ether (BDMAEE) in DPG	- 1		-				
Addocat® 117	1,4-Dimethylpiperazine (DMP)		_				_	_
Addocat® 118	2,2-Dimorpholinodiethylether (DMDEE)	_						
Addocat® 1221 VN	Blend of tertiary amines in a polyether polyol	_	_	_	_	_	_	_
Addocat® 1656 N	Blend of tertiary arrines in a polyetrier polyor							
Addocat® 1926	Blend of tertiary arrines Blend of tertiary amines in a polyether polyol							
Emulsifiers & Foam Stabi								
Addovate® DD 1092	lonic emulsifier							
Addovate® EM	Non-ionic emulsifier							
Addovate® SM optimized	lonic emulsifier			•				
Addovate® SV	lonic emulsifier							
Addovate® TX	lonic emulsifier							
Addovate® WM	Non-ionic emulsifier							
Addovate® 3240	Non-ionic emulsifier							
Crosslinkers								
Addolink® 1604	Isobutyl 4-chloro-3,5-diaminobenzoate (CDABE)							
Yapox® CL30/10	Hydroquinone bis(2-hydroxyethyl)ether (HQEE), > 99.5%							
Yapox® LM 30/10	Hydroquinone bis(2-hydroxyethyl)ether (HQEE), ≥99.5% Hydroquinone bis(2-hydroxyethyl)ether (HQEE), ≥90.0%							
· ·	riyaroquillone bis(z-riyaroxyetilyi/etilet (HQLL), 290.0%							
Hydrolysis Stabilizers								
Stabaxol® I	Monomeric carbodiimide							
Stabaxol® L	Monomeric carbodiimide							
Stabaxol® P 200	Polymeric carbodiimide							
Stabaxol® P	Polymeric carbodiimide							
Stabaxol® P 100	Polymeric carbodiimide							
Plasticizers								
Adimoll® DO	Bis(2-ethylhexyl) adipate (DEHA)							
Mesamoll®/Mesamoll® II	Alkylsulfonic phenyl ester (ASEP)							
Ultramoll® VII	Adipic acid polyester Adipic acid polyester							
Ultramoll® VII LV	Adipic acid polyester Adipic acid polyester							
	Authic acid holyestel							
Other PUR Additives								
Addovate® BA	Aqueous polyurethane dispersion							
Addovate® LP	Alkali aluminium silicate in castor oil							
	Aromatic ester of phosphorous acid							
Addovate® Thermostab	Aromatic ester of priospriorous acid							
Addovate® Thermostab Potlife Enhancer® II	Organic acid chloride in Mesamoll® II							

Cast	Elastomers Cellular	TPU	Coatings	Adhesives	Sealants	Special characteristics
Cast	Cenular	170				
						High flame retardant efficiency
			•			Good low temperature performance
-		-				General purpose flame retardant
•		•	- :	- :	- : -	General purpose flame retardant
•		-	_		•	FDA approval Low emissions
		_	_			Excellent low temperature performance
						Low scorch
						Low volatility in automotive fogging tests, excellent hydrolytic stability and scorch resisitance
						Br / P-synergism, low viscosity, improved process handling & storage vs. neat PHT4-Diol™
						Br / P-synergism, low scorch
						Excellent balance of physical properties, flammability performance and processability
_						Reactive
•	•		•	•	•	Low emissions, compatible with polyether & polyester polyols Reactive
-						High flame retardant efficiency
						Standard flame retardant for all types of rigid PUR/PIR foam
						Effective viscosity reducer
						Low emissions
						Reactive, excellent compatibility with a broad range of commercial polyols & blowing agents
						Reactive, low viscosity, improved process handling & storage vs. neat PHT4-Diol™
			•	_		General purpose flame retardant
-		•			-	General purpose flame retardant
		•				General purpose flame retardant
-		-	•		_	Low volatility Used in 1K construction adhesives
				_		Low water solubility, fine particle size, light-fast
						2011 Hatel Goldonity, mile particle Gize, ngirt last
	_		_	_	_	Moderate activity universal gelling co-catalyst, good emulsifier
					- 1	Balanced catalyst, improves flowability, soluble in water
						Standard strong gelling catalyst, essential for flexible foam
				•		Moderate activity gelling catalyst, especially useful for wood coatings
						Strong multi-purpose gelling catalyst
						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
						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 Addocat® 726 B
						balanced catalyst for rigid toarn with improved metering compared to Addocat 720 B
	_					Emulsifier for cellular elastomers (e. q. Vulkollan), extends cream time
	_					Strong emulsifier & dispersant, improves open-cell structure
						Aqueous emulsifier and foam stabilizer, prevents splits
	i					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
						Long pot life, suitable for large volume articles. Good MBOCA substitute
		•		•		Improves heat resistance, compression set & abrasion. Especially apt for TPU
						Improves heat resistance, compression set & abrasion. Especially apt for TPU
	•		•	•	•	Excellent extension of material service life, acid scavenger
			_	<u> </u>	•	Excellent extension of material service life, acid scavenger
-		-		•	•	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
		_				Executer extension of material service life, solid, might mential stability
				_		Managhabata alaskalara da biah biah biah alaskalara (1997)
		_				Non-phthalate plasticizer with high lightfastness and low-temperature flexibility
						Non-phthalate plasticizer with high saponification resistance
						Non-nhthalate nolymeric placticizer with high migration & extraction recistance
		i				Non-phthalate polymeric plasticizer with high migration & extraction resistance Non-phthalate polymeric plasticizer with lower viscosity compared to Ultramoll VII®
		i				Non-phthalate polymeric plasticizer with high migration & extraction resistance Non-phthalate polymeric plasticizer with lower viscosity compared to Ultramoll VII®
		Ė	_			Non-phthalate polymeric plasticizer with lower viscosity compared to Ultramoll VII®
		i				Non-phthalate polymeric plasticizer with lower viscosity compared to Ultramoll VII® Bonding agent, improves adhesion of rigid integral skin foam to metal
		١	:			Non-phthalate polymeric plasticizer with lower viscosity compared to Ultramoll VII®

Solutions for Versatile Applications. Additives for Polyurethanes.

^{*} not available in the EU



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Unless specified to the contrary, the values given have been established on standardized test specimens. The figures should be regarded as guide values only and not as binding minimum values. Kindly note that the results refer exclusively to the specimens tested. Under certain conditions, the test results established can be affected to a considerable extent by the processing conditions and manufacturing process.

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