

altropol

NEUKAPOL

Specialities based on
renewable raw materials





NEUKAPOL Examples for Application

	Building chemistry							Adhesives			Corrosion protection		Electrical casting
	Industrial floors	Sports floors	Parking levels	Balcony/Terrace	Decorative coatings	Swimming pools	Sealings	1-component	2-component	Production of	Pipelines	Navy/Steel constructions	
Neukapol 1002	✓	(x)	o				(x)		(x)				
Neukapol 1007	✓	(x)	o	o					(x)			(x)	
Neukapol 1563	(x)		(x)								✓		
Neukapol 1565	(x)		(x)		✓	✓	(x)		✓		✓		o
Neukapol 1610	(x)		✓		✓	✓					✓		
Neukapol 1602													✓
Neukapol 1630	✓		✓	o		o	o		✓		✓		o
Neukapol PN 1638								o	✓		o	✓	
Neukapol PN 9011									✓		✓	✓	
Neukapol PN 9501		✓					v	o					
Neukapol PN 9502		✓	✓				✓		✓				
Neukapol PN 9503		✓					✓						
Neukapol PN 9506								✓	✓	✓			
Neukapol PN 9507								✓	✓	✓			
Neukapol PN 9508								✓	✓	✓			
Neukapol PN 9520	✓		✓	o		o	(x)		✓		✓	✓	
Neukapol PN 9521													✓
Neukapol PN 9540	✓		✓				(x)		✓			(x)	
Neukapol PN 9541									✓				
Neukapol PN 9600				✓	o	o							
Neukapol PN 9611				o	✓	(x)							

✓ = particularly suitable

(x) = suitable

o = suitable to a limited extent



NEUKAPOL Polyether Polyols

	OH number [mg KOH/g]	Viscosity [mPas]	Shore D hard- ness*	Elongation at break [%] *	Tension at break [MPa] *	Pot life [min] *	Properties
NEUKAPOL 1019	375	45	n.s.	n.s.	n.s.	n.s.	- reactive diluent - monofunctional
NEUKAPOL 1183	860	6500	85	2	50	30	crosslinker

NEUKAPOL Specialities

NEUKAPOL 1006	—	25	—	—	—	—	- hydrophobic - non-reactive diluent - VOC-free according to 2004/42/EU
NEUKAPOL 1050	120	500	n.s.	n.s.	n.s.	n.s.	- hydrophobic elasticizing polyol - prepolymer
NEUKAPOL 1081	58	9500	A 20	240	< 1	> 120	Co-polyol for the elastification of PU coatings, elastomers and sealants
NEUKAPOL 1563	310	850	85	5	32	45	raw materials are listed in EU Directive 2002/72/EG and/or 2007/19/EC

NEUKAPOL branched Polyether-/Polyester Polyols

NEUKAPOL 1002	205	700	54	70	14	50	- for floor coatings - very good processability - very good chemical resistance
NEUKAPOL 1007	160	3000	63	65	18	40	for general floor coatings
NEUKAPOL 1008	160	3500	65	60	18	40	- for floor coatings 2-C adhesives - elastomers - excellent impact strength
NEUKAPOL 1030	243	1500	80	10	40	30	- as Co-binder for a higher Shore D hardness - casting resin applications

n.s. = not specified

* = crosslinked with polymer MDI all indications are approx. values



NEUKAPOL branched Polyether-/Polyester Polyols

	OH number [mg KOH/g]	Viscosity [mPas]	Shore D hard- ness*	Elongation at break [%] *	Tension at break [MPa] *	Pot life [min] *	Properties
NEUKAPOL 1083	165	2050	55	75	14	60	- for general floor coatings - low-viscous
NEUKAPOL 1119	290	750	85	4	35	90	- as Co-binder - increases the hardness
NEUKAPOL 1565	310	1100	85	5	40	40	- for outdoor application with a very good UV resistance and a good resistance to hydrolysis - high T_g
NEUKAPOL 1570	215	1500	75	30	19	55	for general coatings with a good elastic memory effect
NEUKAPOL 1582	530	5000	n.s.	n.s.	n.s.	n.s.	hydrophobic crosslinker and internal accelerator
NEUKAPOL 1588	240	190	50	60	10	> 120	- pot life prolonger - reactive diluent
NEUKAPOL 1594	230	150	80	2	35	2	for casting compounds with a quick through-curing (Shore D 68 after 30 min.)
NEUKAPOL 1602	225	1150	60	45	20	60	for electrical casting compounds
NEUKAPOL 1610	400	2750	85	1	45	15	- for outdoor applications with a good weather fastness and a good UV resistance - very good resistance to hydrolysis - high T_g
NEUKAPOL 1622 mod. 3	245	160	80	3	50	2	- internal catalyst - faster variant of Neukapol 1594
NEUKAPOL 1630	275	800	80	5	35	55	- for floor coatings - high hardness - extremely hydrophobic
NEUKAPOL 1660	245	2400	80	20	40	45	for coatings with a faster through-curing



NEUKAPOL branched Polyether-/Polyester Polyols

	OH number [mg KOH/g]	Vis- cosit y [mPa	Shore D hard- ness*	Elonga- tion at break [%] *	Tension at break [MPa] *	Pot life [min] *	Properties
NEUKAPOL PN 1235	215	350	45	n.s.	n.s.	n.s.	for flexible coatings
NEUKAPOL PN 1638	210	400	40	60	10	60	for adhesives with a good adhesion to galvanized steel
NEUKAPOL PN 1691	235	700	60	50	16	70	- for industrial floor coatings of medium hardness - for universal use
NEUKAPOL PN 9011	243	800	65	75	16	55	raw materials are listed in EU Directive 2002/72/EG and/or 2007/19/EC
NEUKAPOL PN 9028	218	750	65	50	16	45	more economic variant of Neukapol PN 1691 and PN 9011
NEUKAPOL PN 9501	187	750	45	120	11	60	- for sports floor coatings - good processibility - good chemical resistance
NEUKAPOL PN 9502	219	750	40	460	14	65	- For crack-bridging coatings - T_g ~ -30°C
NEUKAPOL PN 9503	170	750	35	270	12	65	- for sealings - very good processibility
NEUKAPOL PN 9506	47	3850	25	110	n.s.	75	- for adhesives - for prepolymers - high hydrophobicity - high resistance to hydrolysis - T_g ~ -25°C
NEUKAPOL PN 9507	58	180	n.s.	n.s.	n.s.	n.s.	- for 1-component adhesives - as plasticizer alternative - high hydrophobicity
NEUKAPOL PN 9508	f ~ 2,0	300	n.s.	n.s.	n.s.	n.s.	- M_w ~ 2000 (kalk.) - for prepolymers - for adhesives
NEUKAPOL PN 9520	235	2200	85	5	28	35	as Co-binder for floor coatings for a higher Shore D hardness with an extremely high hydrophobicity

n.s. = not specified

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f = functionality



NEUKAPOL branched Polyether-/Polyester Polyols

	OH number [mg KOH/g]	Visco- sity [mPas]	Shore D hard- ness*	Elongation at break [%] *	Tension at break- [MPa] *	Pot life [min] *	Properties
NEUKAPOL PN 9521	231	1500	65	40	18	45	• for electrical casting
NEUKAPOL PN 9540	320	550	85	15	38	35	• for industrial floor coatings similar to EPOXY
NEUKAPOL PN 9541	225	2950	78	7	35	20	• for adhesives with a good adhesion to critical substrates
NEUKAPOL PN 9542	455	240	85	3	n.s.	20	• Co-polyol for fire-retardant coatings
NEUKAPOL PN 9580	235	700	60	50	16	70	• for industrial floor coatings with an excellent chemical resistance and a very good resistance to temperature change
NEUKAPOL PN 9600	300	1500	40	90	15	30	• for balcony /terrace and coatings with walking comfort of a good compressive strength and a high hydrophobicity
NEUKAPOL PN 9611	425	1150	60	70	21	35	• for hydrophobic and hard decorative coatings

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all indications are approx. values

In addition this, Altropol delivers NEUKADUR Epoxy Resin Systems (gel coats, casting compounds, modelling and laminating pastes, laminating and multipurpose resins), NEUKADUR Polyurethanes (fast-cast resins, filled and unfilled, casting compounds, elastical systems, RIM systems, vacuum casting resins), NEUKASIL RTV 2-C silicone rubber (condensation and addition systems), AltroColor color paste systems free from plasticizers and solvents for epoxy resin and polyurethane systems, auxiliary materials and fillers.

Our application engineers will be well prepared to advise you if you have questions about the choice and application of further Altropol products.



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