


ESACOTE® - WATER BASED RESINS FOR PLASTIC COATINGS AND INK INGREDIENTS INFORMATION & TYPICAL VALUE CHART

		inventory status				main application				chemical properties				film properties				
		TSCA	DSL	IECSC	ECL	BINDERS	OPV	PLASTIC	PRIMERS	CHEMICAL NATURE	SOLVENT (%)	SOLVENT TYPE	DRY CONTENT (%)	pH	MIFFT (°C)	KÖNIG HARDNESS (sec)	ELONGATION AT BREAK (%)	TENSILE STRENGTH (MPa)
Products families and main features																		
Water based acrylic emulsions																		
AC 100	FCMD - Holo/sealable	OK	OK	OK	OK		•		•	AC	0	SOLVENT FREE	20	10.0-11.0	30	40	NA	NA
AC 200*	FCMD - Self crosslinking	OK	OK	OK	OK	•		•		AC	0	SOLVENT FREE	40	8.0-10.0	10	40	NA	NA
Water based urethane acrylic dispersions																		
PU 148	Glossy/hard and versatile	OK	OK	OK	OK	•		•	•	PE	4.5	DPGDME	35	7.0-9.0	≈ 25	110	230	25
PU 13	FCMD - Release coating	OK	OK	OK	OK			•		PE	<1	ACETONE	35	8.0-10.0	< 5	75	280	20
Water based UV/EB curable polyurethane dispersions																		
LX 101*	High performance and hardness	OK	OK	OK	OK		•	•	•	PC	<1	MEK	35	7.0-8.5	<5	165	NA	NA
LX 69*	High elasticity	OK	OK	OK	OK		•	•	•	PC	6	DPGDME	35	7.0-8.5	<5	100	NA	NA
Water based BIOBASED polyurethane dispersions																		
BIO 49*	55% Renewable content	-	-	-	-	•			•	PES	<1	MEK	35	7.0-9.0	15	50	300	25
BIO 118	33% Renewable content	OK	OK	OK	OK		•	•		PES	8	DPGDME	32	7.5-8.5	25	170	NA	NA
Water based INHERENTLY MATT polyurethane dispersions																		
PU 940	UV resistant	OK	OK	OK	-		•	•		PC	2	ACETAL	28	7.0-9.0	15	NA	NA	NA
PU 900	FCMD - Antifinger print	OK	OK	OK	OK		•	•		PE	0	SOLVENT FREE	32	7.0-9.0	< 5	NA	NA	NA
PU 960*	FCMD - Ultra soft	OK	OK	OK	OK		•	•		PE	0	SOLVENT FREE	40	8.0-9.0	< 5	NA	NA	NA
PU 961*	FCMD - Ultra soft	OK	OK	OK	OK		•	•		PE	0	SOLVENT FREE	32	8.0-9.0	< 5	NA	NA	NA
PU 980	Silky touch	OK	OK	OK	OK		•	•		PE	0	SOLVENT FREE	32	8.0-9.0	< 5	NA	NA	NA
PU 980 FC	FCMD - Silky touch	OK	OK	OK	OK		•	•		PE	0	SOLVENT FREE	32	8.0-9.0	< 5	NA	NA	NA
Water based polyurethane dispersions																		
MD 23	CATIONIC - Stable to hydrolytes	OK	-	-	OK				•	PES	<1	ACETONE	30	3.5-5.5	< 5	45	290	15
PU C1	CATIONIC - Stable to hydrolytes	-	-	OK	-			•	•	PC	<1	MEK	30	4.0-6.0	<5	25	300	27
PU 3511	NON IONIC - Medium Hygroscopicity	OK	OK	OK	OK	•		•		PES	4	DPGDME	31	7.0-9.0	< 5	NA	850	6
PU 5913	NON IONIC - High Hygroscopicity	OK	OK	OK	OK	•		•		PES	5	DPGDME	30	7.0-9.0	< 6	NA	1000	1
PU 6814	Excellent film formation/release	OK	OK	OK	OK		•	•		PC	14	NMP	35	7.0-9.0	5	140	120	30
PU 1622	For release coating	OK	-	-	-			•		SIL	6	ACETAL	25	7.0-9.0	5	150	NA	NA
PU 61	Antiscratch	OK	OK	OK	OK		•	•		PC	8	DPGDME	35	7.0-9.0	25	150	190	18
PU 62	Improved adhesion on plastic	OK	OK	OK	OK			•		PES	5	DPGDME	35	7.0-9.0	5	40	420	20
PU 78	Wider pH stability, high solids	OK	-	-	OK	•		•		PES	<1	ACETONE	50	8.0-10.0	< 5	NA	600	6
SW3	Touch modifier, Siloxane modified	OK	OK	OK	OK		•	•		SIL	<1	ACETONE	35	8.0-10	5	NA	1000	2.5
PU 40	Excellent overall compatibility	OK	OK	OK	OK	•		•	•	PES	<1	MEK	35	7.5-9.5	5	55	420	30
DP 46	FCMD - Very high flexibility	OK	OK	OK	OK			•		PES	<1	MEK	40	7.0-9.0	< 5	NA	880	4
PU 77	Improved mech. / chemical resistance	OK	OK	OK	OK	•	•			PC	<1	MEK	35	7.0-9.0	35	110	250	26
PU 825	FCMD - Adhesion on BOPET	OK	OK	OK	OK	•		•		PE	0	SOLVENT FREE	28	6.5-8.5	15	27	430	20
PU 835*	FCMD - Adhesion on polyolefin	OK	OK	OK	OK	•		•		PE	0	SOLVENT FREE	35	6.5-8.5	15	38	600	18
PU 850	FCMD - Inline coating BOPET	OK	OK	OK	OK	•		•		PE	0	SOLVENT FREE	28	7.0-9.0	15	40	350	21
Crosslinkers																		
										Chemico-physical properties								
CATALYST AT5/N	Extended pot life	OK	OK	OK	OK	Polyaziridine				-	35	DPGME	65	-	-	Water Soluble		
CROSSLINKER 08	NCO Content: 11% as supplied	OK	OK	OK	OK	Polyisocyanate				-	30	PROPYLEN CARBONATE	70	-	-	Easily dispersible		
CROSSLINKER BK0	Deblocking @130°C: 1.5% as supplied	OK	-	OK	OK	Blocked Polyisocyanate				-	4	DPGDME	25	7.0-9.0	-			
CROSSLINKER BK18	Deblocking @140°C: 4% as supplied	-	-	-	-	Blocked Polyisocyanate				-	<1	ACETONE	30	7.0-9.0	-	MEKO free		
Rheological modifiers																		
										Chemico-physical properties								
VISCOLAM PS 166	Low/Medium Shear HEUR	OK	OK	OK	OK	Medium PVC/gloss paints				-	24	BUTYL CELLOSOLVE	40	4.0-6.0	-	KU builder		
VISCOLAM PS 167	Low/Medium Shear HEUR	OK	OK	OK	OK	Medium PVC/gloss paints				-	24	BUTYL CARBITOL	40	4.0-6.0	-	KU BUilder		
VISCOLAM PS 202	High Shear HEUR	OK	OK	OK	OK	Medium PVC/gloss paints				-	0	SOLVENT FREE	20	4.0-7.0	-	ICI Builder		



* development product
 NA not applicable
 FCMD food contact material declaration available
 DPGME dipropylene glycol methyl ether
 DPGDME dipropylene glycol dimethyl ether

AC acrylic product
 PC polycarbonate
 PE polyether
 PES polyester
 SIL silicon modified

Above data cannot be considered as supply specification.
 This information is given in good faith and to the best of our knowledge. Every user of our products is responsible as regards the observation of all legal regulations including patent laws. Detailed information on handling, and specific precautions to be observed in the use of the product can be found in our relevant Health and Safety Information Sheets.