



Solutions for plastic coatings

Primers

- ESACOTE® PUDs and acrylic emulsions provide good adhesion, also with UV inks.
- ESACOTE® cationic and non ionic PUDs help widen choices of additives to be used in the formulation of special coatings without incurring in-compatibility issues
- ESACOTE® PUDs improve AI and AIOx adhesion on plastic films for a better barrier effect against oxygen and water vapour.
- ESACOTE® PUDs withstand harsh sterilization conditions.

Heat sealability

 ESACOTE® acrylic emulsions with initial sealing temperature from 90 up to 130°C

Matt/Soft touch

- ESACOTE® PUDs inherently matt with a variety of haptic effects from silky to rubbery
- DECOSPHAERA®/SPHEROMERS® PU and AC beads to enhance burnishing, scratch resistance and special texturized effect.
- Bio-based ESACOTE® (glossy and inherently matt) and DECOSPHAERA® bio grades available.

OPV/Protective coating

- ESACOTE® PUDs and radiation curable PUDs to meet the most demanding specifications in terms of scratch and chemical resistance.
- DECOSPHAERA®/SPHEROMERS® PU and AC transparent beads to improve anti-burnishing effect and help control coefficient of friction.
- DECOSPHAERA®/SPHEROMERS® PU and AC beads for deep matt effect (< 2 gloss units) and haptic control.
- ADIWAX wax emulsion for anti blocking and scratch resistance.
- SPHEROMERS® acrylic based beads with monomodal particle size distribution, excellent for enhancing scratch and burnishing resistance in natural look and low gloss top coats

Release/Transfer coating

- ESACOTE® PUDs and acrylic-urethane dispersion as release coating for labels' liners and adhesive tapes.
- ESACOTE® PUDs and acrylic-urethane hybrid dispersion as transfer coating for hot or cold stamping process; optimal overprintability.
- ESACOTE® acrylic emulsions as primers for UV curable glues in cold stamping.





Water based resins for plastic		Main application		Chemical properties					Film p	properties			
								ŧ		(i)	- 6	u (%)	
information & typical value chart Products families and main features		Transfer	Primers	Opv Top coat	Chemical nature	Solvent (%)	Solvent	Dry content (%)	H	MFFT (°C)	König (K) Persoz (P) hardness (sec)	Elongation at break (%)	
Water based acrylic emulsions													
AC 100	FCMD - Holo/sealable		х	х	AC	0	Solvent free	20	10.0-11.0	30	40 (K)	NA	
AC 110	FCMD - Hydroxyl functional		x	x	AC	0	Solvent free	40	7.0-8.0	60	95 (K)	NA	
AC 190	FCMD - Heatsealable		~	X	AC	0	Solvent free	45	7.0-8.0	46	25 (K)/55 (P)	260	
AC 200	FCMD - Self crosslinking		x	X	AC	0	Solvent free	40	8.0-10.0	12	38 (K)	300	
Water based urethane acrylic dispersions				^	7.0				0.0 10.0		55 (1.)		
PU 148	Glossy/hard and versatile	x			PE	4.5	DPGDME	35	7.0-9.0	<0	93(K)/180(P)	≈230	
PU 13	FCMD - Transfer coating	×			PE	<1	Acetone	35	8.0-10.0	0	65(K)/139(P)	≈280	
UA 7023	Self crosslinking / chemical resistance	^		x	PC	0	Solvent free	35	7.0-9.0	60	140 (K)	NA	
D8	FCMD - Good adhesion on BOPET		х	^	PES	<1	Acetone	35	7.0-9.0	≈0	22/K)/44(P)	≈450	
	polyurethane dispersions		^		1 LS	×1	Acetone	33	7.0 7.0	40	22/10// 44(1)	12430	
BiO 4900	FCMD - 62% Bio based carbon	х		х	PES	<1	MEK	35	7.0-9.0	15	88 (K)	≈270	
BiO 118	33% Bio based carbon content	^		X	PES	8	DPGDME	32	7.5-8.5	43	150(K)	NA	
	TLY MATT polyurethane dispersions			*	PES	0	DEGDINE	32	7.5-6.5	43	150(K)	INA	
PU 940	UV resistant	v		v	PC	2	DMM	28	7.0-9.0	0	NA	NA	
PU 900	FCMD - Antifinger print	X		X	PE	0	Solvent free	32	7.0-9.0	0	NA	NA	
PU 960	Ultra soft	X		X	PE	0	Solvent free	39	7.0-9.0	0	NA	NA	
PU 980		X		X	PE	0	Solvent free	32	8.0-9.0	0		NA	
PU 980 FC	Silky touch	X		X	PE	0	Solvent free			0	NA	NA	
	FCMD - Silky touch	X		X				32	8.0-9.0		NA		
BIO 9001	66 % Bio based carbon content	X		X	PE	0	Solvent free	32	8.0-9.0	0	NA	NA	
PU 9510	FCMD - Soft touch, scratch resistance			X	PE	0	Solvent free	34	7.0-9.0	≈0	NA	NA	
PU 9539 FCMD - Silky touch, scratch resistance x PE					0	Solvent free	34	8.5-9.5	≈0	NA	NA		
	able polyurethane dispersions				5.0			20	70.00		140//0		
LX 7050	High hardness high chemical resistance		X	X	PC	0	Solvent free	38	7.0-9.0	≈0	140(K)	NA	
LX 5010	High hardness and abrasion resistance		Х	X	PE	0	Solvent free	40	7.0-9.0	≈0	170(K)	NA	
Water based polyuretha					5.0		MEN	20	40.40		4440 (4040)	200	
PU C1	CATIONIC - High water resistance		X		PC	<1	MEK	30	4.0-6.0	0	14(K)/42(P)	≈320	
PU 5044	Alkali resistant	X		X	PE	15	NEP	31	7.0-9.0	<0	150(K)	NA	
PU 61	Antiscratch	X		Х	PC	8	DPGDME	35	7.0-9.0	25	127(K)	≈200	
PU 62	Improved adhesion on plastic		Х	Х	PES	5	DPGDME	35	7.0-9.0	0	38(K)/57(P)	≈420	
PU 7020	Flexibility / chemical resistance		X	Х	PC	4	DPGDME	35	7.0-9.0	<0	33(K)/56(P)	≈320	
SW3	Modified siloxane			Х	SIL	<1	Acetone	35	8.0-10.0	0	15(K)/37(P)	≈1000	
PU 40	Excellent overall compatibility	X	Х	Х	PES	<1	MEK	35	7.5-9.5	~0	50(K)/75(P)	≈400	
PU 4045	FCMD - Good overcoatability		Х	Х	PES	<0,5	MEK	35	7.5-9.5	~0	NA	≈850	
PU 77	Improved mech. / chemical resistance			Х	PC	<0,5	MEK	35	7.0-9.0	35	105(K)	≈250	
PU 5310	Tie-layer for lamination		X		PE	3	DPGDME	30	7.0-9.0	≈0	45(K)	≈600	
PU 5034	FCMD - Transfer coating	Х			PE	0	Solvent free	35	7.0-9.1	≈20	147(K)	≈250	
Crosslinkers	Chemico-physical properties												
CATALYST AT5/N	Extended pot life	Polyaziridine				35	DPGME	65	-	-			
CROSSLINKER 08 LM	NCO Content: 11% as supplied	pplied Polyisocyanate				30							
Rheological modifiers Chemico-physical properties													
VISCOLAM® PS 166	Low/Medium Shear HEUR					24	2 Butoxyethanol	40	5.0-7.0	-	KU builder		
VISCOLAM® PS 167	Low/Medium Shear HEUR				24	Butyldiglycol	40	5.0-7.0	-	KU builder			
VISCOLAM® PS 170 AIR*	Low Shear HEUR					0	Solvent free	50	4.0-10.0	-	KU builder		
VISCOLAM® PS 202	High Shear HEUR					0	Solvent free	20	4.0-7.0	-	ICI builder		
* development product									Ahove data cani	not he co	nsidered as supply spi	ocification	

^{*} development product

Above data cannot be considered as supply specification.