



Solutions for plastic coatings

Primers/Pre-treatments

- 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 Al and AlOx 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 70 up to 130°C

Matt/Soft touch

- ESACOTE® PUDs inherently matt with a variety of haptic effects from silky to rubbery.
- ESACOTE® PUDs radiation curable to improve scratch and chemical resistance while keeping soft touch effect.
- 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.

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 release 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		rties			Film	properties		
information & typ	pical value chart	Transfer	Primers	Opv Top coat	Chemical nature	Solvent (%)	Solvent	Dry content (%)	Hd	MFFT (°C)	König (K) Persoz (P) hardness (sec)	Elongation at break (%)	
Water based acrylic emul							V -		_	_			
	CMD - Holo/sealable		х	х	AC	0	Solvent free	20	8.0-9.0	30	40 (K)	NA	
	CMD - Hydroxyl functional		x	x	AC	0	Solvent free	40	7.0-8.0	60	95 (K)	NA	
	CMD - Heatsealable			х	AC	0	Solvent free	46	7.0-8.0	10	25 (K)/55 (P)	260	
AC 200 FC	CMD - Self crosslinking		х	х	AC	0	Solvent free	40	8.0-10.0	12	38 (K)	300	
Water based urethane ac	· · · · · · · · · · · · · · · · · · ·										()		
	cellent film formation/hardness	х			PE	5	NEP	35	7.5-8.5	~0	136 (K)/254(P)	≈230	
	ossy/hard and versatile	x			PE	4.5	DPGDME	35	7.0-9.0	~0	93(K)/180(P)	≈230	
	CMD - Transfer coating	x			PE	<1	Acetone	35	8.0-10.0	~0	65(K)/139(P)	≈280	
	If crosslinking / chemical resistance			х	PC	0	Solvent free	35	7.0-9.0	60	140 (K)	NA	
	ble polyurethane dispersions												
_X 7100 Hid	gh performance and hardness		х	х	PC	<1	MEK	35	7.0-8.5	~0	150 (K)	NA	
	polyurethane dispersions										, ,		
	CMD - 62% Bio based carbon	х		х	PES	<1	MEK	35	7.0-9.0	15	88 (K)	≈270	
	% Bio based carbon content			x	PES	8	DPGDME	32	7.5-8.5	43	150(K)	NA	
Water based INHERENT	LY MATT polyurethane dispersions												
	/ resistant	х		х	PC	2	Acetal	28	7.0-9.0	~0	46(K)/90(P)	NA	
PU 900 FC	CMD - Antifinger print	x		х	PE	0	Solvent free	32	7.0-9.0	~0	44(K)/81(P)	≈36	
	tra soft	x		х	PE	0	Solvent free	39	7.0-9.0	~0	52(K)/101(P)	≈5C	
PU 980 Sill	ky touch	x		х	PE	0	Solvent free	32	8.0-9.0	~0	35(K)/65(P)	≈25	
	CMD - Silky touch	x		х	PE	0	Solvent free	32	8.0-9.0	~0	35(K)/65(P)	≈25	
	% Bio based carbon content	x		х	PE	0	Solvent free	32	8.0-9.0	~0	35(K)/65(P)	≈25	
Water based polyurethan	ne dispersions										<i> \</i>		
PU C1 CA	ATIONIC - High water resistance		х		PC	<1	MEK	30	4.0-6.0	~0	14(K)/42(P)	≈32	
	ON IONIC - Lower hygroscopicity		х		PE	<1	Acetone	30	8.0-10.0	5	17(K)/30(P)	≈90	
	ON IONIC - Medium hygroscopicity		x		PES	4	DPGDME	30	7.0-9.0	~0	17(K)/30(P)	≈85	
	cellent film formation/hardness	x		х	PC	14	NMP	35	7.0-9.0	~0	145(K)/280(P)	≈120	
	proved adhesion on plastic		x	x	PES	5	NEP	35	7.5-9.5	~0	38(K)/60(P)	≈50	
	kali resistant	x		х	PE	15	NEP	31	7.0-9.0	~0	160(K)	NA	
	tiscratch	x		X	PC	8	DPGDME	35	7.0-9.0	25	127(K)	≈20	
	proved adhesion on plastic	~	х	x	PES	5	DPGDME	35	7.0-9.0	~0	38(K)/57(P)	≈42	
	exibility / chemical resistance		X	x	PC	4	DPGDME	35	7.0-9.0	~0	33(K)/56(P)	≈32	
	CMD - Modified siloxane		~	x	SIL	<1	Acetone	35	8.0-10.0	~0	15(K)/37(P)	≈70	
	cellent overall compatibility		Х	x	PES	<1	MEK	35	7.5-9.5	~0	50(K)/75(P)	≈40	
	CMD - High compatibility		X	x	PES	<1	MEK	35	7.5-9.5	~0	48(K)	≈45	
	CMD - Good overcoatability		X	x	PES	<0.5	MEK	35	7.5-9.5	~0	NA NA	≈85	
	proved mech. / chemical resistance		^	x	PC	<0.5	MEK	35	7.0-9.0	35	105(K)	≈25	
'	ood adhesion on plastic and Al		х	^	PE	0	Solvent free	28	6.5-8.0	~0	29(K)/49(P)	≈45	
Crosslinkers	od danesion on plastic and Al		^		1.2		ico-physical properties	20	0.5 0.0	U	27(14)/47(1)	73	
	tended pot life	Pol	vazir	idina		35	DPGME	65	_	-	Water Soluble		
	CO Content: 11% as supplied	Polyaziridine Polyisocyanate				30	Propylene carbonate	70	_	_	Easily dispersible		
Rheological modifiers	50 Content. 11/6 as supplied	T OI	, 1300	Janate			ico-physical properties	, 0			Lasily dispersio		
	w/Medium Shear HEUR					24	2 Butoxyethanol	40	5.0-7.0		KU builder		
	w/Medium Shear HEUR					24	-	40	5.0-7.0		KU builder		
	w/Medium Snear HEOR w Shear HEUR						Butyldiglycol						
PS 170 AIR						0	Solvent free	46.5	4.0-10.0	-	KU builder		
/ISCOLAM® PS 202 Hig	gh Shear HEUR					0	Solvent free	20	4.0-7.0	-	ICI builder		

^{*} development product

Above data cannot be considered as supply specification.