💳 Esacote® 🚿 Viscolam® 🎬 Spheromers® 🏶 Decosphæra® 🎙

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Solutions for metal coatings

Pre-treatments

- ESACOTE[®] PUDs, acrylic-urethane and acrylic emulsions suitable for Cr(VI), Cr(III) and Cr-Free formulations.
- ESACOTE[®] PUDs, acrylic-urethane and acrylic emulsions with improved adhesion on Zn/Al alloys, galvanized iron (HDGI/EGI), aluminium and cold rolled steel.
- ESACOTE[®] PUDs, acrylic-urethane and acrylic emulsions with outstanding flexibility for coil coating applications.
- ESACOTE[®] PUDs and acrylic emulsions with enhanced alkali resistance.
- ESACOTE[®] non-ionic and cationic PUDs with good stability in low pH.
- ESACOTE® radiation curable PUDs with outstanding performance.

Primers

- ESACOTE® PUDs with enhanced chemical, mechanical and weathering resistance.
- Specific grades with low VOC.
- ESACOTE[®] PUDs, acrylic-urethane and acrylic emulsions with outstanding flexibility for coil coating application.
- ESACOTE[®] non-ionic and cationic PUDs with good stability in low pH and cationic formulations.
- ESACOTE[®] radiation curable PUDs with outstanding performance.
- VISCOLAM[®] synthetic rheology additives that solve most of the technical challenges in production and application of water based metal coating formulations.

Top coats

- DECOSPHAERA® polymeric matting agent in the form of PU beads suitable for 100% UV/EB coil coating formulations.
- ESACOTE® PUDs with enhanced chemical,
- mechanical and weathering resistance.
- Specific grades with low VOC.
- ESACOTE[®] PUDs, acrylic-urethane and acrylic emulsions with outstanding flexibility for coil coating application.
- ESACOTE® PUDs which provide good compatibility with pigmented pastes for coloured top coats.
- ESACOTE[®] radiation-curable PUDs with outstanding performance.
- ADIWAX DSP solvent wax preparations for flip-flop effect and antisettling.
- SPHEROMERS[®] polymeric matting agents in the form of AC beads for deep matt and scratch resistance as well as for special texturized effects.
- VISCOLAM[®] synthetic rheology additives that solve most of the technical challenges in production and application of water based metal coating formulations.

Water based resins		Main application				Chemical properties					Film properties	
for metal coating applications information & typical value chart		Antifingerprint	Pretreatment	~	ats	ical nature	r	Solvent type	Dry content (%)		(C)	König (K) hardness (sec)
Products families and main features		Antifir	Pretre	Primer	Topcoats	Chemical	Solvent (%)	Solver	Dry co	Hd	MFFT (°C)	König hardn
Water based acrylic emulsions												
Esacote® AC 301	Hydroxyl functional				х	AC	0	Solvent free	40	7.0-8.0	~60	95
Esacote® AC 302	Hydroxyl functional	x	x	x	х	AC	0	Solvent free	50	7.0-8.0	~50	50
Esacote® AC 509	DTM binder			x	х	AC	0	Solvent free	43	7.5-8.5	~25	65
Water based ure thane acrylic dispersions												
Esacote® PU 98/N	Enhanced adhesion	х	х			PC	15	NEP	31	7.0-9.0	~0	130
Esacote® PU 147	Enhanced alkali resistance	x	х			PE	5	NEP	35	7.0-8.5	~0	136
Esacote® PU 148	Enhanced alkali resistance	x	x			PE	4.5	DPGDME	35	7.0-9.0	~0	93
Esacote® UA7023	Selfcrosslinking hybrid	x	x	x	х	PC	0	Solvent free	35	7.0-9.0	~60	140
Water based BIOBASED polyurethane dispersions												
Esacote [®] BIO 118	33% Bio based carbon content	х	x			PES	8	DPGDME	32	7.5-8.5	~43	150
Esacote® BIO 148*	33% Bio based carbon content	х	х			PE	4.5	DPGDME	35	7.0-9.0	~15	100
Esacote [®] BIO 5045	68% Bio based carbon content	х	х			PE	3	DPGDME	30	7.0-9.0	~0	45
Water based polyurethane dispersions												
Esacote [®] PU 40	Excellent overall compatibility			х		PES	<1	MEK	35	7.5-9.5	~0	50
Esacote® PU 61	Antiscratch			x	x	PC	8	DPGDME	35	7.0-9.0	~25	127
Esacote® PU 62	Excellent overall compatibility			x	~	PES	5	DPGDME	35	7.0-9.0	~0	38
Esacote® PU 6419	Excellent alkali resistance	x	x	~		PE	15	NEP	31	7.0-9.0	~0	150
Esacote® PU 6814	Excellent film formation/hardness	x	x			PC	14	NMP	35	7.0-9.0	~0	145
Esacote® PU 70	Excellent film formation/hardness		x			PC	8	NEP	35	7.0-9.0	~10	120
	,	X	×				4	DPGDME	35	7.0-9.0	~0	35
Esacote® PU 7020	Flexibility / chemical resistance			Х	X	PC						
Esacote® PU 77	Improved mech. / chem. resistance	X	X			PC	<0.5	MEK	35	7.0-9.0	~35	105
Esacote® PU 931	NON IONIC - Low pH stable	X	Х			PE	<1	Acetone	30	8.0-10.0	~0	NA
Esacote® PU C1	CATIONIC - High water resistance	X	Х	Х		PC	<1	MEK	30	4.0-6.0	~0	14
Esacote® PU HMF	Alcohol/alkali resistance	Х	Х			PES	8	NEP	30	8.5-10.5	~0	115
Rheological modifiers Viscolam® 630 Low shear HASE					-	Chem 0	ico-physical prop	arties 30	2.0-4.0	-	KU builder	
Viscolam [®] NT 74	High shear HASE				-	0	Solvent free Solvent free	30	2.0-4.0	-	ICI builder	
Viscolam [®] PS 010 AIR					-	0	Solvent free	39.5	4.0-7.0	-	KU builder	
Viscolam® PS 167	Low/Medium Shear HEUR				-	23	2-Butoxyethanol	40	5.0-7.0	-	KU builder	
Viscolam® PS 170 AIR Medium Shear HEUR - 20% biobased carbon content					-	0	Solvent free	46.5	4.0-7.0	-	KU builder	
Viscolam [®] PS 202 AIR						-	0	Solvent free	20	4.0-7.0	-	ICI builder
Polymeric matting age Spheromers [®] CA 6	ents				v		Cnem	ico-physical prop		matting a	aent	
1					×				6 μm	matting agent		
Spheromers® CA 10					X		10 μm					
Spheromers [®] CA 15	Monosized enhorized baseds				x Crosslinked PMMA				15 μm			
Spheromers [®] CA 20	Monosized spherical beads						AIMIN	20 µm	texturing agent with matt effect			
Spheromers® CA 30					X		30 μm					
Spheromers® CA 40					х		40 μm 60 μm					
Spheromers® CA 60					Х							
Decosphaera® 3 EF	Gaussian beads					Crosslinked PU Crosslinked PU			~3µm	matting agent for 100% UV/EB		
Decosphaera® 8/20	Gaussian beads				Х	Crossl	inked P	0	~8µm	matting agent for 100% UV/EB		

Above data cannot be considered as supply specification.

AC PC ΡE PES acrylic polycarbonate polyether polyester

NA FCMD

not applicable food contact material declaration available DPGME dipropylene glycol methyl ether DPGDME dipropylene glycol dimethyl ether

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.