🗖 Esacote® 纷 Viscolam® 🗱 Spheromers®



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

- 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 based on 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.

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Water based resins for metal coating applications		Main application				Chemical properties				Film properties			
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information & typical value chart		Antifingerprint	Pretreatment	2	ats	Chemical nature	ŧ	Solvent type	Dry content (%)		(°C)	König (K) hardness (sec)	
Products families and main features		Antifir	Pretre	Primer	Topcoats	Chem	Solvent (%)	Solver	Dry co	Ha	MFFT (°C)	König hardn	
Water based acrylic emulsions													
Esacote® AC 301	Hydroxyl functional				x	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 urethane acrylic dispersions													
Esacote® PU 98/N	Enhanced adhesion	x	x			PC	15	NEP	31	7.0-9.0	~0	130	
Esacote® PU 147	Enhanced alkali resistance	x	x			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	х	x	х	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	х			PES	8	DPGDME	32	7.5-8.5	~43	150	
Esacote [®] BIO 148*	33% Bio based carbon content	х	x			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			х	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	х	х	~		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	
	Excellent film formation/hardness	×	×			PC	8	NEP	35	7.0-9.0	~10	120	
Esacote [®] PU 70	,	×	×			PC	4	DPGDME	35	7.0-9.0	~0	35	
Esacote® PU 7020	Flexibility / chemical resistance			х	X								
Esacote® PU 77	Improved mech. / chem. resistance	Х	Х			PC	<0.5	MEK	35	7.0-9.0	~35	105	
Esacote® PU 931	NON IONIC - Low pH stable	Х	Х			PE	<1	Acetone	30	8.0-10.0	~0	NA	
Esacote® PU C1	CATIONIC - High water resistance	Х	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					-		ico-physical prop		20.40		KI I builder		
Viscolam [®] 630 Viscolam [®] NT 74	Low shear HASE High shear HASE					-	0	Solvent free Solvent free	30 30	2.0-4.0 2.0-4.0	-	KU builder ICI builder	
Viscolam [®] PS 010 AIR	•					-	0	Solvent free		4.0-7.0	-	KU builder	
Viscolam [®] PS 167	Low/Medium Shear HEUR					-	23	2-Butoxyethanol	40	5.0-7.0	-	KU builder	
	Medium Shear HEUR - 20% biobased carb	on co	onten	t		-	0	Solvent free		4.0-7.0	-	KU builder	
Viscolam® PS 202 AIR						-	0	Solvent free		4.0-7.0	-	ICI builder	
Acrylic polymer beads							Chem	ico-physical prop	erties 6 μ				
Spheromers [®] CA 6		X								matting agent			
Spheromers® CA 10					Х				10 μ 15 μ				
Spheromers [®] CA 15		×											
Spheromers® CA 20				Х				20 µ	texturing agent with matt effect				
Spheromers® CA 30					х	30							
Spheromers® CA 40					х		40 µ						
Spheromers® CA 60					х	60 μ							

Above data cannot be considered as supply specification.

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AC PC ΡE PES

acrylic polycarbonate polyether polyester

NA

not applicable FCMD 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.