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 formulations.
- ESACOTE® radiation curable PUDs with outstanding performance.

Primers

- ESACOTE® PUDs with enhanced chemical, mechanical and weathering resistances.
- 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.

Top coats

- ESACOTE® PUDs with enhanced chemical, mechanical and weathering resistances.
- 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.

At Lamberti we are always willing and ready to support our customers to fine tune formulations to achieve better processability and, ease of application with our right rheology modifiers within our Viscolam portfolio.

Esacote® Viscolam® Spheromers®

Water based resins and additives for metal coating applications

information & typical value chart

Products families and main features

		Main applications				Chemical properties					Film properties	
		Antifingerprint	Pretreatment	Primer	Topcoat	Chemical nature	Solvent (%)	Solvent type	Dry content (%)	pH	MFFT (°C)	König (K) Persoz (P) hardness (sec)
Water based acrylic emulsions												
AC 301	Hydroxyl functional				x	AC	0	Solvent free	40	7.0-8.0	~60	95 (K)
AC 304	Hydroxyl functional	x	x	x	x	AC	0	Solvent free	50	7.0-8.0	~50	50 (K)
Water based urethane acrylic dispersions												
PU 98/N	Enhanced adhesion	x	x			PC	15	NEP	31	7.0-9.0	~0	130 (K)/260(P)
PU 147	Enhanced alkali resistance	x	x			PE	5	NEP	35	7.5-8.5	~0	136(K)/254(P)
UA 8048*	Solvent free hybrid	x	x			PE	0	Solvent free	35	7.0-9.0	~50	140 (K)
Water based UV/EB curable polyurethane dispersions												
LX 7100	High performance and hardness	x	x	x	x	PC	<1	MEK	38	7.0-9.5	~0	150 (K)
Water based BIOBASED polyurethane dispersions												
BIO 118	33% biobased carbon content	x	x			PES	8	DPGDME	32	7.5-8.5	~43	150(K)
BIO 148	28% biobased carbon content	x	x			PE	4.5	DPGDME	35	7.0-9.0	~0	93(K)
Water based polyurethane dispersions												
PU 1056*	NON IONIC - Low pH stable	x	x			PE	7,2	NBP + DPGDME	35	4.0-6.0	~13	NA
PU 40	Excellent overall compatibility			x		PES	<1	MEK	35	7.5-9.5	~0	50(K)/75(P)
PU 61	Antiscratch / wet adhesion			x	x	PC	8	DPGDME	35	7.0-9.0	~25	127(K)
PU 62	Excellent overall compatibility			x		PES	5	DPGDME	35	7.0-9.0	~0	38(K)/57(P)
PU 6419	Excellent alkali resistance	x	x			PE	15	NEP	31	7.0-9.0	~0	150(K)
PU 6814	Excellent film formation/hardness	x	x			PC	14	NMP	35	7.0-9.0	~0	145(K)/280(P)
PU 70	Excellent film formation/hardness	x	x			PC	8	NEP	35	7.0-9.0	~0	120 (K)
PU 7020	Flexibility / chemical resistance			x	x	PC	4	DPGDME	35	7.0-9.0	~0	33(K)/56(P)
PU 77	Improved mech. / chem. resistance	x	x			PC	<0.5	MEK	35	7.0-9.0	~35	105(K)
PU 931	NON IONIC - Low pH stable	x	x			PE	<1	Acetone	30	8.0-10.0	~0	NA
PU C1	CATIONIC - High water resistance	x	x	x		PC	<1	MEK	30	4.0-6.0	~0	14(K)/42(P)
PU HMF	Alcohol/alkali resistance	x	x			PES	8	NEP	30	8.5 -10.5	~0	115(K)/210(P)
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	Medium Shear HEUR					-	0	Solvent free	46.5	4.0-10.0	-	KU builder
VISCOLAM® PS 202	High Shear HEUR					-	0	Solvent free	20	4.0-7.0	-	ICI builder
Polymeric matting agents												
SPHEROMERS CA 6	Monosized spherical beads				x	Crosslinked PMMA			6µ	matting agent		
SPHEROMERS CA 10					x				10µ	texturizing agent with matt effect		
SHPEROMERS CA 15					x				15µ			
SPHEROMERS CA 20					x				20µ			
SPHEROMERS CA 30					x				30µ			
SPHEROMERS CA 40					x				40µ			
SPHEROMERS CA 60					x				60µ			

* development product

Above data cannot be considered as supply specification.

AC	acrylic
PC	polycarbonate
PE	polyether
PES	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.