

Solutions for architectural paints

Water-borne rheology expertise 360°

- From powder to liquid form and direct or inverse emulsions.
- From ionic to non-ionic grades.
- From non-associative versatility to associative efficiency.
- From high pseudoplastic to pure newtonian flow behaviour.
- From synthetic to pure natural and hybrid natural-based with improved structures, Lamberti will help provide you the optimum balance of performance / sustainability / cost with our extensive portfolio of additives - VISCOLAM® (acrylic ASE/HASE/HSD), VISCOLAM® PS (HEUR), ESACOL® (HPG) and CARBOCEL® (CMC) rheological modifiers.

Matt/Soft touch with haptic and mechanical performances toolbox

- ESACOTE® PUDs inherently matt with a variety of haptic effects from silky to rubbery.
- DECOSPHAERA®/SPHEROMERS® PU and AC polymeric beads for deep matt, burnish resistance, scuff & scratch resistance as well as for special texturized effect.

- ESACOTE® inherently matt and DECOSPHAERA® matting enhancers also available in BIO based grades.
- ADIWAX, wax emulsions, synthetic or natural-based, for matt or scuff improvement in more economic paint & varnish systems.

Performance water-borne binders for waterproofing and cool roofing

- ESACOTE® PUDs and acrylic hybrid-urethane dispersion binders with inherent elasticity for long-lasting efficiency of roof & terrace protection.
- Built-in elasticity thanks to polymer structure without use of external plasticizer. Our dispersions provide permanent elasticity and no brittle effect.
- For pigmented (for roofs or cool roofing systems) or transparent systems (on ceramics, natural stones or concrete).
- For thick or thin film membranes.

High traffic waterborne binders for floors

- ESACOTE® PUDs for 1K and 2K high traffic concrete or industrial wood floors and parking structures.
- Solutions for anti-tire tracks (hot pneumatic traces) for white and clear colours public parking's.

Binders for trim paints and varnishes

- ESACOTE® as sole binder for high quality waterborne trim paints for wood, metal, and plastic.
- ESACOTE® as co-binder to boost existing system and excellent compatibility with various other binder chemistries.
- ESACOTE® glossy also available in BIO based grades.

Water based resins as binders for architectural sector
information & typical value chart

		chemical properties						film properties				
Archi co-binder	Water proofing	Flooring	Chemical nature	Solvent (%)	Solvent type	Dry content (%)	pH	MFFT (°C)	König (K) Persoz (P) hardness (sec)	Elongation at break (%)		
Water based acrylic emulsions												
AC 200	FCMD - Self crosslinking		AC	0	Solvent free	40	8.0-10.0	12	38 (K)	≈300		
Water based urethane acrylic dispersions												
PU 147	Glossy/hard and versatile		PE	5	NEP	35	7.5-8.5	-0	136(K)/254(P)	≈230		
PU 148	Glossy/hard and versatile		PE	4.5	DPGDME	35	7.0-9.0	-0	93(K)/180(P)	≈230		
ESATEC 612	2K flooring anti-tiretracks in parking structures		AC/PC	4.5	DPGDME	38	7.0-9.0	NA	NA	NA		
Water based BiOBASED polyurethane dispersions												
BIO 4900*	62% Bio based carbon content - highly flexible binder		PES	<1	MEK	35	7.0-9.0	15	88 (K)	≈270		
BIO 118	33% Bio based carbon content - hard binder		PES	8	DPGDME	35	7.0-9.0	15	88 (K)	≈270		
BIO 148	28% Bio-based carbon content		PE	30	DPGDME	35	7.0-9.0	-0	93(K)/180(P)	≈230		
Water based INHERENTLY MATT polyurethane dispersions												
PU 940	Matt, transparent and UV resistant		PC	2	DPGDME	35	7.0-9.0	-0	38(K)/57(P)	≈420		
PU 980	Matt with silky touch		PE	0	Solvent free	32	8.0-9.0	-0	35(K)/65(P)	≈250		
BIO 9001	66% Bio based carbon content - Matt with silky touch		PE	0	Solvent free	32	8.0-9.0	-0	35(K)/65(P)	≈250		
Water based polyurethane dispersions												
MD 23	CATIONIC - Anti migration stain		PES	<1	Acetone	30	3.5-5.5	45	28(K)	≈200		
PU 71	Excellent film formation / hardness		PC	8	NMP	35	7.0-9.0	-0	130(K)/215(P)	≈200		
PU 470	Water proofing		PE	4	NEP	40	7.0-9.0	-0	31(K)/62(P)	600		
PU 475	Water proofing, better flexibility		PE	4	NEP	40	7.0-9.0	-0	29(K)/54(P)	800		
PU 5181	Water proofing, high flexibility, lowest water uptake		PE	4	NBP	40	7.0-9.0	-0	35(K)	500		
UR 115	High hardness, self crosslinking		PES	8	NEP	32	7.0-8.5	-0	170(K)/290(P)	NA		
PU 61	Antiscratch / Flooring 1K		PC	8	DPGDME	35	7.0-9.0	25	127(K)	≈200		
ST 47	Wider pH stability, high solids		PES	<1	Acetone	50	8.0-10.0	-0	8(K)/23(P)	≈800		
PU 77	Improved mechanical / chemical resistances		PC	<0.5	MEK	35	7.0-9.0	35	105(K)	≈250		
PU 24	Concrete top coat anti-carbonation		PE	5.5	DPGDME	35	7.5-9.5	-5	60(K)	≈330		
Crosslinkers			Chemico-physical properties									
CATALYST AT5/N	High MW polyaziridine crosslinker for extended pot life		35	DPGME	65	Water soluble - for AC and PUDs						
CROSSLINKER 08	Water dispersible aliphatic polyisocyanate - NCO Content: 11% as supplied		30	Propylene carbonate	70	Easily dispersible - for AC and PUDs						
Adhesion Promoter			Chemico-physical properties									
CROSSLINKER PU	Water dispersible organosilane improved adhesion on difficult mineral substrates through chemical bonding											
Plasticizers			Chemico-physical properties									
ESAPLAST G12	Polymeric plasticizer phthalate-free for AC/ST binders		Blend of Polymeric Plasticizers			Improve binder elongation, specially in waterproofing						
ESAPLAST ECO 30	Polymeric plasticizer phthalate-free for AC/ST binders		Blend of Polymeric Plasticizers			Alternative to G12 without any labelling						
LAGOFLEX C-1	Polymeric plasticizer phthalate-free for PUD binders		Blend of Polymeric Plasticizers			Improve applicability of our PUD at low temperature						
Rheological modifiers			Chemico-physical properties									
CARBOCEL®	Low/Mid-Shear CMC (Technical & Purified grades)		CMC	0	Powder	100	Ionic - KU builder and film former					
ESACOL® ED 5, 15, 16, 18	Mid-Shear HPG - Easy Dispersible		HPG	0	Powder	100	Non-ionic - KU builder with open-time					
ESACOL® ED 30x, 50x*	New generation high viscosity Mid-Shear HPG		HPG	0	Powder	100	Non-ionic - KU builder high efficiency					
ESACOL® ED MAX*	Mid-Shear + antispattering control HPG		HPG	0	Powder	100	Non-ionic - KU-builder antispattering					
ESACOL® HD 15	Mid-Shear HPG - Hyper Dispersible		HPG	0	Powder	100	Non-ionic - KU builder					
ESACOL® HS 30r	Mid-Shear HPG - Improved alkali resistance		HPG	0	Powder	100	Biocide-free systems and silicate paints					
ESACOL® CAT 10 OR 30	Mid-Shear HPG - Cationic modified		HPG	0	Powder	100	Cationic - Antistatic and blocking properties					
VISCOLAM® CMD 50	Very Low-Shear HSD		AC	0	VOC-free	48	Anionic - stabilisation - ideal for putties					
VISCOLAM® 330	Low + High-Shear ASE		AC	0	VOC-free	30	Anionic - polyvalent, not binder dependant					
VISCOLAM® 630	Low + Medium Shear HASE		AC	0	VOC-free	30	Anionic - anti-sagging / anti-settling					
VISCOLAM® 600	Mid-Shear HASE		AC	0	VOC-free	30	Anionic - KU builder					
VISCOLAM® 635	Mid-High-Shear HASE		AC	0	VOC-free	30	Anionic - KU + ICI builder					
VISCOLAM® NT 74	High-Shear HASE		AC	0	VOC-free	30	Anionic - ICI builder					
VISCOLAM® PS 166	Low/Mid-Shear HEUR		PU	24	2 Butoxyethanol	40	Non-ionic associative PU - KU builder					
VISCOLAM® PS 167	Low/Mid-Shear HEUR		PU	24	Butyl carbitol	40	Non-ionic associative PU - KU builder					
VISCOLAM® PS 170 AIR	Mid-Shear HEUR		PU	0	VOC-free	46.5	Non-ionic associative PU - KU builder					
VISCOLAM® PS 202	High-Shear HEUR		PU	0	VOC-free	20	Non-ionic associative PU - ICI builder					

* development product
 AC acrylic
 PU polyurethane
 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.