Solutions for architectural paints

Binders for trim paints and varnishes

- ESACOTE® binder designed for high-quality, waterborne trim paints suitable for wood, metal, and plastic substrates
- ESACOTE® used as co-binder to boost existing systems, showing excellent compatibility with various other binder chemistries. Selected BIO based ESACOTE® grades are also available.

High traffic waterborne binders for floors

- ESACOTE® PUDs for 1K concrete coatings designed for high-traffic areas like buildings, warehouses, parking lots, and wood floors.
- Specific solutions to prevent tire marks on both white and coloured parking floors.

Performance waterborne binders for waterproofing and cool roofing

- ESACOTE® PUDs and acrylic hybrid-urethane binders with inherent elasticity for long-lasting potection of roof, terrace, and balconies.
- Built-in elasticity without the need for external plasticizers. Our dispersions ensure permanent elasticity, while preventing blocking and brittleness under harsh conditions.
- Can be used for pigmented (for roofs or cool roofing systems) or transparent systems (on ceramics, natural stones, or concrete).
- Suitable for formulation in both thin and thick membranes

Matt/Soft touch with haptic and mechanical performances toolbox

- Inherently matt ESACOTE® PUDs with various tactile effects, from silky to rubbery.
- DECOSPHAERA®(PU) / SPHEROMERS® (AC) polymeric beads enhance matte finishes, improve burnish resistance, and provide scuff and scratch resistance. Special grades are available to create unique textured effects. Available in both transparent and colored forms
- ADIWAX, synthetic or natural-based wax emulsions, for improving matt or scuff resistance in economic paints & varnish.
- BIO based grades of ESACOTE® inherently matt, DECOSPHAERA®, and ADIWAX are also available.

Water-borne rheology expertise 360°

We produce an extensive range of rheological additives

- From powder to liquid form
- Ionic and non-ionic grades
- Direct or Inverse emulsions
- From the versatile non-associative products, to the most efficient associative grades
- From highly pseudoplastic to pure Newtonian additives
- Sustainable solutions obtained from either natural or synthetic raw materials

Thanks to our wide portfolio of rheological modifiers VISCOLAM® (ASE/HASE/HSD acrylics), VISCOLAM® PS (HEUR associative polyurethanes), ESACOL® (HPG guar derivatives) and CARBOCEL® (CMC CarboxyMethyl Cellulose), Lamberti will help you providing the optimum balance of performance, sustainability and cost.

Water based binders & additives for architectural sector

information & typical value chart

					chemical properties					film properties		
		Trim or co-binder	Water proofing (WP)	Flooring	Chemical nature	Solvent (%)	Solvent type	Dry content (%)	pH	MFFT (°C)	hardness (sec) König (K) Persoz (P)	Elongation at break (%)
Water based acrylic emulsions												
ESACOTE AC 126	Low MFFT but quite hard binder providing wide compatibility with additives	x			AC	0	Solvent free	40	4.0 - 6.0	≈19	80 (K)	≈300
ESACOTE AMC	Self crosslinking with good adhesion and high flexibility ideal for primers	x	x	x	AC	0	Solvent free	37,5	7.5-8.5	≈0	7 (K)	NA
ESACOTE AC 200	Self crosslinking with good adhesion, for primers formulations	x	x	x	AC	0	Solvent free	40	8.0-10.0	≈12	38 (K)	≈300
ESACOTE AC 202*	Very hard with good chemical and stain resistance also even in 1K	x			AC	0	Solvent free	43	7.0 - 8.0	≈50	85(K)/180 (P)	NA
ESACOTE AC 302	Hydrolylated ideal for PUR-2K WB on metal, wood, concrete	x		x	AC	0	Solvent free	50	7.0 - 8.0	≈50	50(K)/95(P)	NA
Water based urethane acrylic dispersions												
ESACOTE PU 147	Glossy/hard and versatile	x	x	x	AC/PE	5	NEP	35	7.5-8.5	≈0	136(K)/254(P)	≈230
ESACOTE PU 148	Glossy/hard and versatile pyrrolidone-free	x	x	x	AC/PE	4,5	DPGDME	35	7.0-9.0	≈0	93(K)/180(P)	≈230
ESACOTE UA 7023	Self-crosslinking special hard top-coat	x		x	AC/PC	0	Solvent free	35	7.0-9.0	≈60	140(K)	≈130
ESATEC 612	2K top-coat flooring anti-tiretracks in parking structures	x		x	AC/PC	4,5	DPGDME	38	7.0-9.0	≈23	NA	NA
Water based BiOBASED polyurethane dispersions												
ESACOTE BIO 4900*	Highly flexible binder - 62% Bio based carbon content	x		x	PES	<1	MEK	35	7.0-9.0	≈15	88 (K)	≈270
ESACOTE BIO 148*	Glossy/hard and versatile - 33% Bio based carbon content	x		x	AC/PE	4,5	DPGDME	35	7.0-9.0	≈15	100 (K)	≈230
ESACOTE BIO 118	Hard binder - 33% Bio based carbon content	x		x	PES	8	DPGDME	32	7.5-8,5	≈43	150 (K)	NA
Water based polyurethane dispersions												
ESACOTE PU 470	Water proofing, clear or pigmented, low water uptake	x	x	x	PE	4	NEP	40	7.0-9.0	≈0	31(K)/62(P)	≈600
ESACOTE PU 472	Water proofing pigmented, pyrrolidone-free	x	x	x	PE	4	DPGDME	35	7.0-9.0	≈0	28(K)/48(P)	≈700
ESACOTE PU 475	Water proofing, clear or pigmented, extended elongation	x	x	x	PE	3,6	NEP	40	7.0-9.0	≈0	29(K)/54(P)	≈800
ESACOTE PU 5181	Water proofing, clear or pigmented, high flexibility, lowest water uptake	x	x	x	PE	4	NBP	40	7.0-9.0	<5	35(K)	≈500
ESACOTE ST 47	Wider pH stability, high solids	x	x		PES	<1	Acetone	50	8.0-10.0	<0	8(K)/23(P)	≈800
ESACOTE PU 5018	High solid, high elasticity, good water resistance	x	x		PE	0	Solvent free	59	7,0 - 9,0	≈0	33(K)	≈500
ESACOTE PU 61	Top-coat antiscratch / Flooring 1K	x		x	PC	8	DPGDME	35	7,0 - 9,0	25	127(K)	≈200
ESACOTE PU 77	Improved mechanical / chemical resistances	x		x	PC	<0,5	MEK	35	7,0 - 9,0	35	105(K)	≈250
ESACOTE PU 24	Concrete top coat anti-carbonation, pyrrolidone-free			x	PE	5,5	DPGDME	35	7.5-9.5	≈0	60(K)	≈350
Water based INHERENTLY MATT polyurethane dispersions												
ESACOTE PU 940	Matt, transparent and UV resistant	x			PC	2	DPGDME	28	7.0-9.0	≈0	46(K)/90(P)	NA
ESACOTE PU 980	Matt with silky touch	x			PE	0	Solvent free	32	8.0-9.0	≈0	35(K)/65(P)	≈250
ESACOTE BIO 9001*	Matt with silky touch - 66 % Bio based carbon content	x			PE	0	Solvent free	32	8.0-9.0	0	35(K)/65(P)	≈250

* development product
AC acrylic
PU polyurethane
PES polyester
NA not applicable
FCMD food contact material declaration available

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

Water based binders & additives for architectural sector

information & typical value chart

Crosslinkers		Physico-chemical 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
CROSSLINKER 013	Water dispersible aliphatic polyisocyanate - NCO Content: 11% as supplied	30	DPGME	70	Easily dispersible - for AC and PUDs
Adhesion Promoter					
CROSSLINKER PU	Water dispersible organosilane improved adhesion on difficult mineral substrates through chemical bonding				
Plasticizers		Physico-chemical properties			
ESAPLAST G12	Polymeric plasticizer phthalate-free for AC/ST binders	Polymer	Liquid		Improve binder elongation, specially in waterproofing
ESAPLAST ECO 30	Polymeric plasticizer phthalate-free for AC/ST binders	Polymer	Liquid		Alternative to G12 without any labelling
LAGOFLEX C-1	Polymeric plasticizer phthalate-free for PUD binders	Polymer	Liquid		Improve applicability of our PUD at low temperature
Rheological modifiers (for more details cf separate Leaflet dedicated to Rheological additives for Coating/Paint/Adhesive/Sealants)		Physico-chemical properties			
CARBOCEL®	Low/Mid-Shear CarboxyMethylCelluloses (Technical & Purified grades)	CMC	Powder		Ionic - natural-based - Brookfield and KU builder or film former
ESACOL® ED	Mid-Shear non-ionic HPG - Easy Dispersible with various viscosity including anti-spattering	HPG	Powder		Non-ionic - natural based - KU builder with open-time
ESACOL® HD	Mid-Shear non-ionic HPG - Hyper Dispersible that do not nead neutralisation to swell	HPG	Powder		Non-ionic - natural based - KU builder
ESACOL® HS	Mid-Shear non-ionic HPG - Improved alkali resistance	HPG	Powder		Non-ionic - natural based - for biocide-free systems and silicate paints
VISCOLAM® CMD	Very Low-Shear HSD	AC	Liquid		Anionic - synthetic - stabilisation - ideal for putties
VISCOLAM®	ASE & HASE non-associative & associative ionic acrylic rheological additives	AC	Liquid		Anionic - synthetic - from low to high shear
VISCOLAM® PS	Associative non-ionic rheological additives	PU	Liquid		Non-ionic - synthetic - from low to high shear
VISCOLAM® BIO PS*	Associative non-ionic rheological additive with very high content of BIO-based raw material	PU	Liquid		Non-ionic - synthetic with BIO-based ingredients from low to high shear
Matting agents & Effect pigments (for more details cf separate Leaflet dedicated to Matting Beads)		Physico-chemical properties			
DECOSPHAERA® & SPHEROMER®	Synthetic microbeads for high performance resistance matt, haptive & decorative effects	PU or AC	Powder		Synthetic - exist in various size, chemistries up to BIO-based versions even in colored in bulk versions
Hydro-repellent		Physico-chemical properties			
CERFOBOL® R/75	Synthetic waxes special preparation with hydrorepellency properties	Polymer	Liquid		Short/long term Water Repellent used as anti snail tracks & early rain resistance for façade paints
Wetting & Dispersing agents		Physico-chemical properties			
REOTAN®	Classic dispersing agent available in various Mw, neutralisation form and solid content	AC	Liquid		Synthetic for pigments (mostly inorganic), fillers and extender dispersion
Surfactants for paint & coating		Physico-chemical properties			
VERAPON®, FLUIJET®, POLIROL ...	Wetting & Dispersing additives or colorant compatibilizers and Surface wetting agents	various	Liquid		Non-ionic & ionic surfactants, hyperdispersants
Pigment Concentrates (for more details cf separate Leaflet dedicated to Pigment Dispersions)		Physico-chemical properties			
NEOPRINT®	Pigment dispersions	various	Liquid		Only available in Americas
Defoamers		Physico-chemical properties			
DEFOMEX®	Defoamers for water-borne paints based on vegetal or mineral oils or based on polymers	various	Liquid		Foam Destruction and/or Prevention in Paints and Varnishes
Wax dispersions		Physico-chemical properties			
ADIWAX	Wax dispersions for solvent-borne & water-borne systems	various	Liquid		

*	development product	PES	polyester
AC	acrylic	NA	not applicable
PU	polyurethane	FCMD	food contact material declaration available
PC	polycarbonate	DPGME	dipropylene glycol methyl ether
PE	polyether	DPGDME	dipropylene glycol dimethyl ether

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