



ESACOTE® PU 5070

Chemical description

ESACOTE® PU 5070 is solvent free anionic waterborne dispersion of an aliphatic polyurethane based on polyether diols.

Main use

Binder for clear and pigmented coatings for water proofing formulations providing flexibility, high transparency and gloss

Product properties

Appearance at 25 °C:	opalescent liquid
pH: (at 25°C on supplied product, ASTM E 70):	7.00-9.00
Viscosity (cPs): (Brookfield RVT @ 25 °C, 50 rpm spindle 2)	< 300
Solid content, %:	39-41

Typical values*

Solvent content, % :	0%
Density, @ 25°C g/ml:	1.01-1.04
Minimal film forming temperature, °C:	<5
Film aspect:	transparent, glossy not stiky

**These values provide general information and are not part of the product specification*

Applications

ESACOTE® PU 5070 is a binder specifically designed for waterproofing applications for roof or terrace coatings.

It is suitable for the formulation of thick and elastic pigmented membranes with low water uptake.

Adhesion promoters, and in some cases a primer, can be used to optimize bonding on porous substrates.

ESACOTE® PU 5070 can be used as sole binder or in combination with other water based resins: a preliminary compatibility check is advisable before blending.

Water dispersible polyisocyanates, melamine resins, polyaziridines or carbodiimides can be used as crosslinkers to enhance overall properties.

ESACOTE® PU 5070 does not require co-solvents for film formation.

Starting point formulations are available through our sale representatives

surfacetreatment.lamberti.com

Storage and handling

Suggested storage condition for ESACOTE® PU 5070 is between +10°C and +35°C. Keep away from frost and direct light. If stored under these conditions, ESACOTE® PU 5070 is stable for 12 months from the production date.

Packaging

ESACOTE® PU 5070 is available in 120 kg drums or 1,000 kg intermediate bulk containers.

Material safety

Please consult the ESACOTE® PU 5070 safety data sheet before its use.

Regulatory information

In case compliance with specific regulations is required please contact our sales representatives.

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FORMULA IMPERMEABILIZANTE

Introduction order	Raw material	Quantity %	Function & Supplier
1	WATER	14.75	
2	VERAPON R-405	1.5	Wetting Agent (Lamberti)
3	DEFOMEX 2053 ECO	0.2	Defoamer (Lamberti)
4	ESACOL ED MAX	0.5	Rheological Modifier
5	TITANIO R-902	8	Titanium Dioxide
6	CARBONATO DE CALCIO MALLA 325	18	Leveler agent(Byk)
7	ESACOTE® PU 5070	55	PU Dispersion (Lamberti)
8	TEXANOL	0.9	Cosolvente Eastman
9	DEFOMEX 2053 ECO	0.2	Defoamer (Lamberti)
10	VISCOLAM® PS 170 AIR	0.8	PU Thickener
11	LIMOCID 135 TR	0.15	Conservative Agent (Lamberti)
Total		100	