



# ESACOTE® PU 470

## Chemical description

ESACOTE® PU 470 is an anionic waterborne dispersion of an aliphatic polyurethane based on polyether diols.

## Main use

ESACOTE® PU 470 can be used as binder for clear and pigmented coatings providing:

- Medium hard, highly flexible film,
- high gloss and clarity,
- Low water uptake.

## Product properties

<b>Appearance at 25 °C:</b>	opalescent liquid
<b>pH:</b> (at 25°C on supplied product, ASTM E 70):	7.0-9.0
<b>Viscosity (cPs)</b> (Brookfield RVT @ 25 °C, 50 rpm spindle 2)	< 500
<b>Solid content, %:</b>	39.0-41.0

## Typical values\*

<b>Solvent content, % :</b>	4% (NEP)
<b>Density, @ 25°C g/ml</b>	~1.05
<b>Minimal film forming temperature, °C:</b>	~0
<b>Koenig hardness (s)</b>	~31
<b>Film aspect:</b>	transparent, glossy not stiky

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

## Applications

ESACOTE® PU 470 is a binder specifically designed for waterproofing systems for roofs or terrace formulations. It is suitable for the formulation of thick and elastic pigmented membranes with low water uptake.

Adhesion promoters can be used to improve the adherence on porous substrates. In some cases a primer can be also used to improve the adherence.

ESACOTE® PU 470 can also be used as a binder for coatings intended to be applied over disposable gloves.

ESACOTE® PU 470 can also be used on screen inks for transfer print on textile thanks to their outstanding flexibility and stability with pigment pastes.

Starting point formulations are available through our sales representatives.

[surfacetreatment.lamberti.com](http://surfacetreatment.lamberti.com)

ESACOTE® PU 470 can be used as sole binder or in combination with other water-based resins. A preliminary check of compatibility is recommended. No co-solvent is needed for film formation.

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

## Storage and handling

Suggested storage condition for ESACOTE® PU 470 is between +10°C and +35°C. Storage under +10°C can irreversibly increase ESACOTE® PU 470 viscosity.

Keep the product away from frost and direct light. If stored under these conditions, ESACOTE® PU 470 is stable for 12 months after production date.

## Packaging

ESACOTE® PU 470 is available in 120 kg drums or 1,000 kg intermediate bulk containers.

## Material safety

Please consult the ESACOTE® PU 470 safety data sheet before its use.

## Regulatory information

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

## ESACOTE® PU 470

### 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	<b>ESACOTE® PU 470</b>	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)
<b>Total</b>		100	