



# ESACOTE® PU 5018

## Chemical description

ESACOTE® PU 5018 is a solvent free anionic waterborne dispersion of an aliphatic polyurethane based on polyether diols.

## Main use

ESACOTE® PU 5018 can be used as binder for clear and pigmented coatings providing:

- mechanical and water resistance,
- good balance of elasticity and hardness.

## Typical values

<b>Appearance at 25 °C:</b>	milky 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>	58.0-60.0

## Product properties

<b>Solvent content, % :</b>	0%
<b>Density, @ 25°C g/ml</b>	~1.015
<b>Minimal film forming temperature, °C:</b>	~0
<b>Koenig hardness (s)</b>	~33
<b>Film aspect:</b>	soft and elastic

Please contact our sales representatives for test methods details.

## Applications

ESACOTE® PU 5018 can be used as a sole binder or in combination with other water based resins when an high solid content binder is required.

ESACOTE® PU 5018 provide good mechanical resistance and good resistance to water.

A preliminary check of compatibility is recommended.

No co-solvent is needed for film formation.

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

## Storage and handling

Suggested storage condition for ESACOTE® PU 5018 is between +5°C and +35°C. Keep the product away from frost and direct light. If stored under these conditions, ESACOTE® PU 5018 is stable for 12 months after production date.

## Packaging

ESACOTE® PU 5018 is available in 120 kg drums or 1,000 kg intermediate bulk containers.

## Material safety

Please consult the ESACOTE® PU 5018 safety data sheet before its use.

## Regulatory information

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

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

This information and our technical recommendations, if any, both verbal and in writing, are given to the best of our knowledge, without any express or implied warranty, e.g., regarding their fitness for a specific purpose. Each user of our products is the sole responsible for assessing and ensuring compliance with all legal regulations including intellectual property laws and necessary certifications and authorizations with respect to the use, combination and processing of our products. Our technical recommendations do not release the user from the obligation to check its validity and to test our products as to their suitability and fitness for the intended processes and uses. The application, use and processing of both our products and the products manufactured by the user (on the basis of our technical recommendations, if any) are beyond our control and, therefore, the user is the sole responsible for them. Detailed information and instructions on handling the products and cautions to be observed in the use of them are available in our relevant Safety Data Sheet.