



# ESACOTE® UA 7023

## Chemical description

ESACOTE® UA 7023 is a solvent free anionic self-crosslinking aliphatic copolymer dispersion based on polycarbonate polyurethane and acrylic esters.

## Main use

ESACOTE® UA 7023 can be used as binder for clear and pigmented coatings providing:

- quick drying,
- good hardness development,
- high gloss and clarity,
- good mechanical, stain and chemical resistance also in 1K application,
- good balance of elasticity and hardness,

## Typical values

<b>Appearance at 25 °C:</b>	opalescent liquid
<b>pH:</b> <b>(at 25°C on supplied product, ASTM E 70):</b>	7.0-9.0
<b>Viscosity (cPs)</b> <b>(Brookfield RVT @ 25 °C, 50 rpm spindle 1)</b>	<300
<b>Solid content, %:</b>	34.0-36.0

## Product properties

<b>Solvent content, % :</b>	0%
<b>Density, @ 25°C g/ml:</b>	1.01 -1.03
<b>Minimal film forming temperature, °C:</b>	~60
<b>Koenig hardness (s)</b>	~140
<b>Film aspect:</b>	hard, transparent and glossy

Please contact our sales representatives for test methods details.

## Applications

ESACOTE® UA 7023 is a multipurpose resin that can be used on various substrates and applications. Here below some examples:

- Wood coating, for cabinets and furniture formulations, clear and pigmented.
- On plastic films as antiscratch OPV varnish.
- On aluminium as protective coating 1K.

Starting point formulations are available through our sales representatives.

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

ESACOTE® UA 7023 can be used as sole binder or in combination with other water-based resins. A preliminary check of compatibility is recommended. We generally suggest small percentage of glycols for good film formation.

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

## Storage and handling

Suggested storage condition for ESACOTE® UA 7023 is between +5°C and +35°C. Keep the product away from frost and direct light. If stored under these conditions, ESACOTE® UA 7023 is stable for 12 months after production date.

## Packaging

ESACOTE® UA 7023 is available in 120 kg drums or 1,000 kg intermediate bulk containers.

## Material safety

Please consult the ESACOTE® UA 7023 safety data sheet before its use.

## Regulatory information

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

## ESACOTE® UA 7023

### GLOSSY 1K TOP COAT FORMULATION

Introduction order	Raw material	Quantity %	Function & Supplier
1	<b>ESACOTE® UA 7023</b>	85	Binder (Lamberti)
2	BUTIL CARBITOL	8	Coalescente (Alveg)
3	WATER	3	
4	BYK 333	0.3	Leveler agent(Byk)
5	BYK 346	0.2	Wetting agent(Byk)
6	MONOETILENGLICOL	3	Alveg
7	VISCOLAM® PS 166 (Sol 10%)	0.2	Rheology modifier (Lamberti)
8	TEGO AIREX 902	0.1	Defoamer (Evonik)
9	LIMOCID 135 TR	0.2	Bactericida
<b>Total</b>		100	