

ESACOTE PU 61

DESCRIPTION

ESACOTE PU 61 is a waterborne aliphatic polyurethane based on polycarbonate diols, which if used alone or in combination with acrylic emulsions could improve hardness, toughness and the chemical resistance of the varnish.

Addition of 15-20% of Co-solvent as for example Butylcarbitol could help at room temperature the correct film formation, while a water dispersible isocyanates can be used to enhance the chemical and the mechanical resistance.

ESACOTE PU 61 can be used then in combination with waterborne melamine resins in oven drying formulations with excellent adhesion, and good resistance to water, detergents and stain (PVC flooring applications).

PROPERTIES

Appearance	visual	slightly cloudy liquid
Solids content	%	35,0 ± 1
Density at 20°C	g/ml	1,030 ± 0.015
pH 25°C as supplied	-	7,0 - 9,0
Brookfield Viscosity 20 rpm, sp2 - 25°C	mPa*s	600 max.
Co-solvent	%	8% Proglyde DMM (Dipropylenglycol dimethylether)

TYPICAL FILM PROPERTIES

König Hardness	sec	ASTM D4366	140 - 150
Tensile strength	MPa	ASTM D882	40
Elongation	%	ASTM D882	200
Abrasion loss (Taber) (CS17, 1Kg, 1000 rev.)	mg	ASTM D4060	20 - 25

M.F.F.T.	°C	ISO 2115	20 - 25
----------	----	----------	---------

LAMBERTI S.p.A - Via Marsala 38/d, 21013 Gallarate – Italia - phone: +3902715111 – www.lamberti.com

Above data cannot be considered as supply specification. 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, and eventual precautions to be observed in the use of the product can be found in our relevant Health and Safety Information Sheet



STORAGE

Suggested storage condition is between +5°C and +35°C. Keep away from cold places. If stored under the above conditions, the product can keep its stability at least for 6 months.

Starting Formulation

Name 462 - Clear PU Warnish

Internal Code 250000.00099-CC

Esacote PU 61	86,00	<i>Aliph. PUR Disp.</i>
Water	5,00	
ButyldiGlycol	5,00	
Surfynol 104E	1,00	<i>Surface wetting agent</i>
Dehydran 1293	0,50	<i>Surface wetting agent</i>
Byk 346	0,30	<i>Surface wetting and leveling agent</i>
Byk 333	0,25	<i>Slip additive</i>
Viscolam PS 166, Sol. al 10%/s/s	1,60	
Water	0,35	
Total	100,00	

Standard Parameters

Crosslinkable with 2% Catalyst AT5/N (Polyaziridine based) , or with a Water Dispersible Isocyanate Hardener in a ratio 100 : 10

Aliph. Polyisocyanate 70,00 (Bayhydur 305, Basonat HW)

PU grade solvent 30,00 (Dowanol PMA, Propylene Carbonate, Dowanol DMM...)

Or, in alternative,

Rhodocoat X-EZ-D803, as supplied.

LAMBERTI S.p.A - Via Marsala 38/d, 21013 Gallarate – Italia - phone: +3902715111 – www.lamberti.com

Above data cannot be considered as supply specification. 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, and eventual precautions to be observed in the use of the product can be found in our relevant Health and Safety Information Sheet

