ecronova polymer

Ecrothan 4075

Solvent free polyurethane emulsion
for high performance parquet lacquer

Bright future.
Water-based emulsions.

Ecrothan 4075

Type of emulsion

Water-based polyurethane emulsion based on a polyester polyols

Technical data

Solid content:	40,0 +/- 1 %
pH-Value:	7,0 - 8,5
Average particle size:	0,08µm
Polymer system:	anionic
Density of emulsion:	1,04 g/cm³
MFFT:	0 °C
Viscosity (Brookfield RVT, Spindle 2, 20 rpm, 23°C):	20 – 200 mPas

Specification

The values for solid content, viscosity and pH-Value represent the specification and are determined by our quality control department.

Characteristics

- high elastic
- extremly low abrasion
- good water resistance
- 1C as well as 2C applications
- excellent weatherbility
- good „Anfeuerung“

Application

high performance 1C and 2C parquet lacquer as well as pigmented systems, can be used in combination with pure acrylics like Ecrylic RA 646H

Note

The information given in this brochure is reliable to the best of our knowledge. It is supposed to serve as a guideline for further processing our product. Due to the many influences in processing, however, no guarantee ca be construed.

Starting formulations

Parquet laquer, high gloss

1	**Ecrothan 4075**	**Ecronova Polymer GmbH**	**82,00**
	pos. 1 to put forward		
2	Butylglycol		4,50
3	Water		4,50
	pos. 2 + 3 mix before addition and add under stirring		
4	Byk 028	Byk Chemie GmbH	0,40
5	Ultralube E 846	Keim-Additec Surface GmbH	3,00
6	Acticide MBN	Thor GmbH	0,30
7	Tego Twin 4100	Evonik Industries	0,30
	pos. 4-7 add after each other under stirring		
8	Water		2,00
9	Acrysol RM 825	Dow Advanced Materials	0,30
	pos. 8 + 9 mix before addition		
10	Water		2,70
	pos. 10 to adjust the viscosity		
	Total		**100,00**

Viscosity DIN 4mm	after 1 d/rt	40 s
Gloss 20°		71 E
Gloss 60°		90 E
Pendulum hardness (König)	after 1 d/rt	37 s
	after 7 d/rt	37 s
	after 28 d/rt	40 s
Taber Abraser (CS 17/1000g/1000 U)		10 mg

2 component parquet laquer, high gloss

Component A

1	**Ecrothan 4075**	**Ecronova Polymer GmbH**	**82,00**
	pos. 1 to put forward		
2	Water		4,50
3	Butylglycol		4,50
4	Acticide MBN	Thor Chemie	0,20
5	Tego Foamex 845	Evonik Industries	0,30
6	Byk 093	Byk Chemie GmbH	0,30
7	Ultralube E 846	Keim-Additec Surface GmbH	3,00
8	Silco Wet 075	Silcona GmbH & Co.KG	0,40
	pos. 2 - 8 add after each other under stirring		
9	Acrysol RM 825	Dow Advanced Materials	0,30
10	Water		2,00
	pos. 9 + 10 mix before addition		
11	Water		2,50
	Total		**100,00**
Component B			
12	Bayhydur 305	Bayer Material Science	3,75
13	Butylacetat		1,25
	pos. 12 + 13 mix before addition		5,00
	Component A + B mix with high shear		

Solid content		33,00 %
Viscosity DIN 4mm	after 1 d/rt	48 s
Gloss 60°		90 E
Pendulum hardness (König)	after 1 d/rt	39 s
	after 28 d/rt	73 s
Taber -Abraser (CS 17/1000g/1000 U)	15	mg

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