



NECOWEL 750

Polyol component for water based two component polyurethane systems

Product properties

NECOWEL 750 is a polyol component to formulate high quality two component polyurethane lacquers. The emulsion does not contain APEO and is free of VOC and SVOC. Coatings based on this patented binder system show good solvent-, weather- and yellowing resistance as well as high gloss

As crosslinker HDI and IPDI based oligomeric polyisocyanates are recommended. Basically hydrophylic isocyanates specially designed for waterborne systems, as well as common hydrophobic types can be used. Best results have been obtained by a mixture of both. As usual in PU systems, an excess of crosslinker is recommended (e.g. 150 % isocyanate).

In combination with appropriate hardeners film thicknesses of more than 100 µm can be achieved without blistering.

Application

- Two component polyurethane coatings.

Analytical data

- Solid content: 41 – 44 %
- Oil length: ca. 18 %
- Type of oil: peanut oil
- Viscosity: 2.0 – 5.0 Pa.s, 20 °C
- pH-value: 7 – 8
- OH-content: 3.1 – 3.5 %
- Neutralizer: TEA
- Solvent: water

Packaging and storage

- Packaging: 180 kg drum | 900 kg IBC | tank car
- Transportation and storage: Protect from freezing
- Minimum shelf life: 6 months in closed original packaging
- Detailed health and safety information please find in the corresponding safety data sheet.

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NECOWEL 750

Starting formulation

Code Nr.: 12311 2C Clear coat based on NECOWEL 750

Position	Product	Wt. %	Supplier
A	NECOWEL 750	70,00	ASK
B	Byk 3455	0,50	Byk
C	Demin.Wasser	28,10	
D	Tafigel Pur 41	0,40	Münzing
E	Byk Silclean 3720	1,00	Byk
		100,00	

Procedure Mix position A – E under stirring.

Curing Mixing ratio = 4:1 p.b.wt. with ASK-Hardener 14965.

Code Nr.: 14965 ASK Hardener 14965

Position	Product	Wt. %	Supplier
A	Bayhydur XP 2655	80,00	Bayer
B	Butyldiglykolacetat	20,00	
		100,00	

Test results:

Substrate: cold rolled steel
 Gloss (20°): > 85 GU
 Hardness (König): > 150 sec
 Cross cut test: Gt 0-1
 Cupping test /(Erichsen): 6.0 mm



NECOWEL 750

Starting formulation

Code Nr.: 14476 2C-Top Coat based on NECOWEL 710

Position	Product	Wt. %	Supplier
A	NECOWEL 750	60,00	ASK
B	Pigmentpaste # 14448	36,00	
C	Byk 3455	0,50	Byk
D	Demin.Wasser	0,50	
E	Byk Silclean 3720	3,00	Byk
		100,00	

Procedure Mix position A – E under stirring.

Curing Mixing ratio = 4:1 p.b.wt. with ASK-Hardener 8382.

Code Nr.: 8362 ASK Hardener 8362

Position	Product	Wt. %	Supplier
A	Bayhydur XP 2655	80,00	Bayer
B	Butylglykolacetat	20,00	
		100,00	

Code Nr.: 14448 Pigment paste

Position	Product	Wt. %	Supplier
A	Demin. Wasser	23,00	
B	Disperbyk 192	6,50	Byk
C	Byk 024	0,10	Byk
D	Kronos 2310	70,00	Kronos
E	Aerosil 200	0,20	Evonic
F	Acticide MBS	0,20	Thor
		100,00	

Procedure Mix position A – F under stirring and disperse with dissolver or pearl / sand mill.

Test results:

Substrate:	Cold rolled steel
Gloss (60°):	> 100 GU
Gloss (20°):	> 95 GU
Demin. Water	> 130 sec
Cross cut test:	Gt 0
Cupping test (Erichsen):	8 mm