

NECOWEL 585

Cosolvent free, modified alkyd emulsion short oil length

Product properties

NECOWEL 585 is an aromatic PU-modified alkyd emulsion with short oil length and very fast drying properties.

It is especially suited to formulate air-drying and odorless lacquers with fast drying properties, mainly for indoor applications and primers. In acrylic systems the addition of NECOWEL 585 improves brushability and gloss. For industrial applications forced drying (60 – 80 °C) is possible.

Coatings based on NECOWEL 585 show good adhesion on different substrates, also on plastics like polystyrene and ABS.

Application

- Primers for metal, wood and plastics
- Anti-corrosive primers
- Hybrid systems.

Analytical data

- Solid content: 43 – 46 %
- Oil length: approx. 20 %
- Type of Oil: sunflower oil
- Viscosity: 0.5 – 2.0 Pa.s, 20 °C
- pH-value: 7 – 8
- 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.

NECOWEL 585

Starting formulation

Code No.: 14722 Zinc phosphate primer based on NECOWEL 585

Position	Produkt	Gew. %	Lieferant
A	NECOWEL 585	36,50	ASK
B	Demin. Wasser	5,00	
C	Disperbyk 191	0,50	BYK
D	Byk 024	0,30	BYK
E	Kronos 2310	14,60	Kronos
F	Finntalc M30	10,00	Omya
G	Orisil 200	0,20	Helm AG
H	Zinkphospate ZP 10	7,30	Heubach
I	NECOWEL 585	18,20	ASK
J	ASKODRY 2216	0,40	ASK
K	Borchi Oxy – Coat 1101	0,20	OMG Borchers
L	Tafigel Pur 41	0,20	Münzing
M	Byk 4509	2,50	BYK
N	Demin. Wasser	4,10	
		100,00	

Mix A – H under stirring, disperse 20 Min. (21 m/s, grind to < 15 µm), and complete with I – N.

Test results:

Substrate:	cold rolled steel
Film thickness:	45 – 50 µm
gloss:	matt-finished
Hardness (König):	50 sec
Cross cut test:	Gt 0
Cupping test (Erichsen):	8.0 mm
Corrosion after 240 h salt spray test:	m0/g0 no underfilm corrosion



NECOWEL 585

Starting formulation

Code No.: 8462 Zinc phosphate primer based on NECOWEL 585

Position	Product	Wt. %	Supplier
A	NECOWEL 585	50,00	ASK
B	Pigment Slurry # 8458	45,50	
C	Halox 570 Lösung # 6499	3,00	
D	Nuodex Web combi AQ	1,00	Byk
E	Tafigel Pur 41	0,30	Münzing
F	Byk 024	0,20	Byk
		100,00	

Mix A-F in alphabetic order.

Code No.: 6499: Halox 570 Solution

Position	Product	Wt. %	Supplier
A	Denim Wasser	62,80	
B	Ammoniak 25 %	7,20	
C	Halox 570	30,00	Halox
		100,00	

Code No.: 8458 Pigment Slurry

Position	Produkt	Gew. %	Lieferant
A	Denim Wasser	19,50	
B	Disperbyk 194	8,80	Byk
C	Byk 018	1,00	Byk
D	Finntalc M30	18,00	Mondo Minerals
E	Zinkphosphat ZP 10	15,00	Heuback
F	Socal 31	7,00	Solvay
G	Millicarb BG	15,00	Omya
H	Kronos 2310	15,00	Kronos
I	Aerosil 200	0,50	Evonik
J	Acticide MBS	0,20	Thor
		100,00	

Test results:

Substrate:	cold rolled steel
Film thickness:	45 – 50 µm
Gloss:	matt-finished
Hardness (König):	50 sec.
Cross cut test:	Gt 0
Cupping test (Erichsen):	8.0 mm
Corrosion test	
after 240 h salt spray test:	m0/g0 no underfilm corrosion