

NECOWEL 585

Cosolvent free, modified alkyd emulsion short oil length

Product properties

NECOWEL 585 is an aromatic PU-modified, oxidative drying alkyd emulsion with short oil length and very fast drying properties. The emulsion is free of APEO, VOC and SVOC.

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

Generally NECOWEL 585 shows good compatibility with pigments, except basic pigments. Due to the excellent shear resistance, NECOWEL 585 can be used as binder in mill bases.

Coatings based on NECOWEL 585 show good adhesion on different substrates, metal, wood and 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: triethylamine
- 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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Starting formulation

Code Nr.: 170200 Zincphosphate primer based on NECOWEL585

Position	Product	Wt. %	Supplier
A	NECOWEL 585	36,50	ASK
B	Dem. water	5,00	
C	Disperbyk 191	0,50	BYK
D	Byk 024	0,30	BYK
E	Kronos 2310	7,30	Kronos
F	Socal P3	7,30	Solvay
G	Finntalc M30	10,00	Mondo
H	Zinkphosphat ZP 10	7,30	Heubach
I	Aerosil 200	0,20	Evonik
J	NECOWEL 585	18,20	ASK
K	Borchi Oxy – Coat 1101	0,20	OMG Borchers
L	Tafigel Pur 41	0,20	Münzing
M	Byk 4509	2,50	BYK
N	Dem. water	4,50	
		100,00	

Mix A – I, thereafter disperse with dissolver or pearl mill to a particle size < 15µm. Add J – N under stirring.

Test results:

Substrate:	cold rolled steel
Film thickness:	40 - 50 µm
Hardness (König):	> 50 sec
Cross cut tests:	Gt 0
Cupping test (Erichsen):	6 mm
Saltspray test:	240 h: no blistering, corrosion creep < 1 mm