

NECOWEL 5088

Cosolvent free, modified alkyd emulsion medium oil length

Product properties

NECOWEL 5088 is an aliphatic PU-modified alkyd emulsion with medium oil length. The emulsion does not contain APEO, is free of VOC and SVOC and is neutralized with ammonia.

NECOWEL 5088 offers very good drying properties and good weather- and yellowing resistance. It is therefore applicable in air drying top coats, e.g. for agricultural equipment.

Lacquers based on NECOWEL 5088 show good adhesion on metal- and plastic substrates.

Application

- Industrial coatings
- Machinery lacquers
- Top coats
- Single layer systems
- Hybrid systems
- Wood lacquers

Analytical data

- Solid content: 43 – 46 %
- Oil length: approx. 35 %
- Type of oil: spec. fatty acids
- Viscosity: 0.7 – 2.2 Pa.s, 20 °C
- pH-value: 7 – 8
- Neutralizer: ammonia
- 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 No.: 14965 White top coat based on NECOWEL 5088

Position	Product	Wt. %	Supplier
A	NECOWEL 5088	62,80	ASK
B	Pigmentpaste 14448	35,00	
C	Tafigel Pur 41	0,30	Münzing
D	Byk 3455	0,20	Byk
E	ASKODRY 2216	0,50	ASK
F	Borchi Oxy Coat 1101	0,15	Borchers
G	Byk 1710	0,30	Byk
H	Demin. Wasser	0,75	
		100,00	

Procedure : Mix A – H under stirring.

Code No.: 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	Orisil 200	0,20	Helm AG
F	Acticide MBS	0,20	Thor
		100,00	

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

Test results

Surface drying:	0,5 h (drying recorder)
Through drying:	4 h (drying recorder)
Substrate:	cold rolled steel
Film thickness:	30 – 45 µm
Hardness (König):	71 sec.
Cross cut tests:	Gt 0
Cupping test (Erichsen):	8 mm
Condensation water test:	240 h
Gloss (60°):	> 90 GU
Gloss (20°):	> 85 GU

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General View: aliphatic PU-modified alkyd emulsions

White top coat based on NECOWEL aliphatic PU-modified alkyd emulsions (Code No. 14659), tests are made on cold rolled steel at a film thickness of about 30 – 45 µm.

NECOWEL	2275	2329	5088	5286
Shear resistance:	dissolver dispersion	◀	◀	pearl mill dispersion
Minimum film-forming Temperature:	low	▶	▶	higher
Through drying (drying recorder):	18 h	10 h	4 h	1 h
Hardness (König):	49 sec	55 sec	71 sec	102 sec
Gloss (Gardner 20°):	> 85	> 85	> 85	> 85
Cross cut tests:	Gt 0	Gt 0	Gt 0	Gt 0
Cupping test (Erichsen):	8 mm	8 mm	8 mm	8 mm