



# NECOWEL 580

## Cosolvent free, unmodified alkyd emulsion short oil length

### Product properties

NECOWEL 580 is a cosolvent free short oil alkyd emulsion based on non-yellowing fatty acids.

It is especially suited to formulate lacquers of low odor emission. Adding appropriate driers, NECOWEL 580 is also suited as binder for air drying systems. In acrylate systems the addition of NECOWEL 580 improves brushability and gloss. In combination with water soluble melamine resins baking enamels of high reactivity can be formulated.

Generally NECOWEL 580 shows good compatibility with pigments except basic pigments..

### Application

- Baking enamels
- Hybrid systems
- Grinding vehicles

### Analytical data

- Solid content: 41 – 44 %
- Oil length: approx. 20 %
- Type of Oil: sunflower oil
- Viscosity: 1.5 – 3.0 Pa.s, 25 °C
- pH-value: 6.5 – 7.5
- Neutralizer: TEA
- Solvent: water

### Packaging and storage

- Packaging: 200 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 580

## Starting formulation

Code No. 8454: White baking enamel based on NECOWEL 580

Position	Product	Wt. %	Supplier
A	NECOWEL 580	30,0	ASK
B	Tego Twin 4000	0,3	Evonik
C	Disperbyk 194	0,5	BYK
D	Kronos 2310	21,0	Kronos
E	NECOWEL 580	22,5	ASK
F	Tego Airex 901 W	0,3	Evonik
G	Cymel 328	6,0	Allnex
H	Tafigel Pur 41	0,5	Münzing
I	Demin. Wasser	9,7	
J	Butyldiglykol	5,0	
K	Halox 570 Lösung #6499	1,0	
L	Isopropanol	1,6	
M	n-Butanol	1,6	
		<b>100,0</b>	

High speed disperse A – D for 15 min., thereafter disperse over pearl mill for 30 min., grind to < 10µm. Keep stirring and add E – N.

## Code No. 6499: Halox 570 Lösung

Position	Produkt	Gew. %	Lieferant
A	Denim Wasser	92,8	
B	Ammoniak 25 %	7,2	
C	Halox 570	30,0	Halox
		<b>100,0</b>	

Mix position A – C in alphabetic order under stirring.

### Test results:

Substrate:	cold rolled steel	Drying: 10 min., 150 °C
Film thickness:	35 µm (dry film)	Gloss: > 90 (Gardner 60°)
Hardness (König):	145 sec	Cross cut tests: Gt 0
Cupping test (Erichsen):	3.5 mm	