

# NECOWEL 4350

## Cosolvent free, cationically modified alkyd emulsion medium oil length

### Product properties

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NECOWEL 4350 is an oxidatively drying, cationically modified alkyd emulsion with medium oil length. The emulsion does not contain any APEO. The emulsion is neutralized with ammonia.

NECOWEL 4350 offers excellent stain blocking properties against water soluble substrate contaminations like e.g. nicotine, tobacco condensate, markers and wood ingredients. Most of these water soluble colorants are anionic and are bound at the cationic counterpart in the resin. Compared to alternative cationic emulsions the patented technology of NECOWEL 4350 offers a nearly neutral pH-value. This leads to good compatibility with additives and different kind of pigments and fillers. Best properties can be achieved at a pH-value between 6.5-7.0. An alkaline pH-value should be avoided to prevent ammonia-salt-formation of the colorants.

NECOWEL 4350 offers excellent wetting and application properties. A diluted version in water can be used as tannin blocking wood impregnation.

### Application

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- Stain blocking primers and wall paints
- Tannin blocking wood impregnation

### Analytical data (preliminary specifications)

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- Solid content: 43.5 – 48.5 %
- Oil length: approx. 35 %
- Type of oil: spec. fatty acids
- Viscosity: 30 – 1000 mPa.s, 25 °C
- pH-value: 6.5 – 8.0
- Neutralizer: ammonia
- Solvent: water

### Packaging and storage

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- 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 4350

## Starting formulation

### Stain blocking wall paint based on NECOWEL 4350

Position	Product	Wt %
A	Necowel 4350	29,65
B	Demin. water	14,80
C	Airex 902 W	0,50
D	Tego Dispers 655	1,40
E	Socal P3	19,70
F	Kronos 2310	19,70
G	Finntalc M30	4,90
H	Dorkafill H	4,90
I	Dicalite WB 6	3,95
J	Aerosil 200	0,20
K	Proxel XL2	0,30
		<b>100,00</b>

Mix A – J and disperse with dissolver until grain fineness <15µm.

### Stain blocking primer based on NECOWEL 4350

Position	Product	Wt %
A	Necowel 4350	46,50
B	Byk 154	0,40
C	Byk 024	0,30
D	Socal P3	15,40
E	Kronos 2310	5,00
F	Omyacarb 40SV	6,80
G	Aerosil 200	1,00
H	Borchi Oxy Coat 1101	0,08
I	Demin. water	24,52
		<b>100,00</b>

Mix A – G and disperse with dissolver. Add H – I.

### Tannin blocking wood impregnation based on NECOWEL 4350

Position	Product	Wt %
A	NECOWEL 4350	50,00
B	ASKODRY 2216	0,50
C	Borchy Oxy-coat 1101	0,50
D	Demin. water	49,00
		<b>100,00</b>