

NECOWEL 4300

Cosolvent free, modified alkyd emulsion medium oil length

Product properties

NECOWEL 4300 is a cationic modified alkyd emulsion with medium oil length. The emulsion does not contain APEO and is free of VOC. The emulsion is neutralized with ammonia.

NECOWEL 4300 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 fixed at the cationic counterpart in the resin. Compared to alternative cationic emulsions the patented technology of NECOWEL 4300 offers a neutral pH-value. This leads to good compatibility with additives and different kind of pigments and fillers. Best properties can be reached at a pH-value of 6.5. An alkaline pH-value should be avoided to prevent forming of ammonia salts of the contamination with higher water solubility.

NECOWEL 4300 offers excellent wetting and application properties. A diluted version in water can be used as tannin blocking wood impregnation.

Application

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

Analytical data

- Solid content: 42 – 45 %
- Oil length: approx. 35 %
- Type of oil: spec. fatty acids
- Viscosity: 30 – 300 mPa.s, 25 °C
- pH-value: 5.5 – 6.5
- 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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NECOWEL 4300

Starting formulation

Code No.: 8248 stain blocking primer based on NECOWEL 4300

Position	Product	Wt %	Supplier
A	NECOWEL 4300	45,50	ASK
B	Byk 154	0,40	Byk
C	Byk 024	0,30	Byk
D	Socal P 3	15,40	Solvay
E	Kronos 2310	5,00	Kronos
F	Omyacarb 40 SV	6,80	Omya
G	Nuodex WebKombi AQ	1,00	Elementis
H	Aerosil 200	1,00	Evonik
I	Demin.Wasser	24,60	
		100,00	

Disperse A – H under stirring, complete with I.

Code No.: 6904 stain blocking wall paint based on NECOWEL 4300

Position	Product	Wt %	Supplier
A	NECOWEL 4300	29,52	ASK
B	Demin. Wasser	14,80	
C	Airex 902 W	0,50	Evonik
D	Tego Dispers 655	1,40	Evonik
E	Socal P3	19,70	Solvay
F	Kronos 2310	19,70	Kronos
G	Finntalc M30	4,92	Mondo Minerals
H	Dorkafill H	4,92	Dorfner
I	Dikalite WB 6	3,94	Gefco Minerals
J	Tego Visko Plus 3000	0,10	Evonik
K	Tego Visko Plus 3030	0,50	Evonik
		100,00	

Procedure Disperse A – H and grind to < 15 µm, complete with I – K.

NECOWEL 4300

Starting formulation

Tannin blocking wood impregnation based on NECOWEL 4300

Position	Product	Wt %	Supplier
A	NECOWEL 4300	50,00	ASK
B	ASKODRY 2216	0,5	ASK
C	Borchy Oxy-coat 1101	0,5	Borchers
D	Demin. water	49,0	
		100,00	

Disperse A –D under stirring.