

NECOWEL 4400

Cosolvent free, modified alkyd emulsion based on saturated fatty acids

Product properties

NECOWEL 4400 is a cationic modified alkyd emulsion based on saturated fatty acids. The emulsion does not contain APEO and is free of VOC and SVOC. The emulsion is neutralized with ammonia.

NECOWEL 4400 offers excellent stain blocking properties against water soluble substrate contaminations like 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 4400 offers good properties at 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 4400 is based on saturated acids and therefore offers non-yellowing properties and is free of smell and odor. The resin offers excellent wetting and application properties.

Application

- Stain blocking wall paint.

Analytical data

- Solid content: 42 – 45 %
- 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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Starting formulation

Code No.: 14114 Stainblocking wall paint based on NECOWEL 4400

Position	Product	Wt. %	Supplier
A	NECOWEL 4400	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.