

# NECOWEL FLE 55 R

## Copolymer resin emulsion based on fish oil and linseed oil

### Product properties

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NECOWEL FLE 55 R is a 55 % emulsion of NECOWEL FLE in water, containing an APEO free emulsifier system. The emulsion is free of cosolvents, VOC and SVOC.

NECOWEL FLE 55 R is especially suited to formulate non-film-forming wood stains and impregnating wood protection. NECOWEL FLE 55 R does not contain any driers and therefore cobalt free or cobalt driers can be used. Recommendations are available upon request. NECOWEL FLE 55 R contains a specific raw material combination which improves the early water resistance of the product formulation.

To improve the stability in combination with pigment pastes we suggest to use approx. 0.1 % of Xanthan-based thickeners, like Optigel 629 C or Kelzan. Preferably these thickeners are incorporated as pregel.

Impregnations and varnishes based on NECOWEL FLE 55 R show very good weather resistance as well as outstanding wetting and penetration properties. Therefore NECOWEL FLE 55 R exhibits excellent natural wood color intensification.

### Application

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- Wood impregnation
- Wood stains
- Wood varnishes

### Analytical data

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- Solid content: 53 – 56 %
- Oil length: approx. 80 %
- Type of oil: linseed oil / fish oil
- Viscosity: 0.4 – 1.9 Pa.s, 20 °C
- pH-value: 6.5 – 7.5
- Solvent: water

# NECOWEL FLE 55 R

## 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 FLE 55 R

## Starting formulation

Code No.: 170411 wood impregnation based on NECOWEL FLE 55 R

Position	Product	Wt. %	Supplier
A	NECOWEL FLE 55 R	40,00	ASK
B	Acticide MBS	0,05	Thor
C	Nuodex Drycoat	0,40	Rockwood
D	ASKODRY 2216	0,80	ASK
E	Borchi Oxy-coat 1101	0,40	Borchers
F	Aquacer 539	1,50	Byk
G	Demin. water	56,85	
		<b>100,00</b>	

Mix A – G under dissolver and stir for further 10 minutes.

## General view: NECOWEL FLE for wood stains

NECOWEL FLE is emulsified and adjusted to a solid content of 55 % with non-ionic emulsifiers without using cosolvents or amines. The low viscosity of the copolymer supports the good penetration into the wood fibers. The emulsions differ in content of certain additives and siccatives.

NECOWEL	Add on	Siccative	Blue Stain Protection
FLE 55 CF	—	—	—
FLE 55 R	faster early water resistance	—	—
FLE 55 LR	faster early water resistance and drying	—	—