

# NECOWEL FLE 55 M

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

### Product properties

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NECOWEL FLE 55 M 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 M is especially suited to formulate water-repellent impregnations as well as for treatment of wood and stone. NECOWEL FLE 55 M does not contain any driers and therefore cobalt free or cobalt driers can be used. Impregnations and varnishes based on NECOWEL FLE 55 M show very good weather resistance, outstanding wetting and penetration properties as well as non-film-forming properties in case of absorbing substrates like wood and stone. In addition, the treated surfaces have a highly hydrophobic character. Therefore NECOWEL FLE 55 M exhibits an excellent natural wood and stone color intensification. The product is ideal to impregnate porous stony substrates like paving stones leading to good water-repellency and a natural wet-stone-effect. The low viscosity of the copolymer supports the good penetration whereby added biocidal substances are able to penetrate deeply into the substrate and the early moss formation is prevented.

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

### Application

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- Stone and wood impregnations and 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

### 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 M

## Starting formulation

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

Position	Product	Wt. %	Supplier
A	NECOWEL FLE 55 M	40,00	ASK Chemicals
B	Acticide MBS	0,05	Thor
C	Nuodex Drycoat	0,40	Rockwood
D	ASKODRY 2216	0,80	ASK Chemicals
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. Starting formulation no. 170411 is a copolymer resin emulsion with low viscosity. After application, the natural stone color is intensified and the surface is highly water-repellant. Thus the natural stone is protected from weathering and its intense color is fully preserved.

Before impregnation



After impregnation

