

## OxyMul 50 AQ-40

### Medium oil alkyd emulsion

#### Applications

- water based stains for exterior wood
- exterior high gloss paints for wood
- exterior primers for wood

#### Advantages:

- high renewable content
- good adhesion to wood
- penetrates in the wood grain
- high resistance to water
- long term flexibility during service life
- no labelling
- free of microplastic

#### Compatibility

Water	Unlimited
Propylene glycol	limited
Aliphatic solvents like D60	limited
Di-Basic-Ester	limited

#### Delivery form:

40% solids  
58% water  
1,0% Nebol Odourless GTL Solvent (Shell)  
0,4% Tri-Ethyl-Amine (Moller Chemie GmbH)  
0,6% Propylene Glycol

#### Storage guidelines

The resin should be stored indoors in the original, unopened and undamaged containers in a dry place at storage temperatures between 5°C and 30°C. Exposure to direct sunlight should be avoided.

#### Shelf life

Under the stipulated storage conditions, the anticipated shelf-life is 365 days from last quality control date, as stated in the Certificate of Analysis.

#### Material safety

Not classified according to EU-GHS (CLP)

#### Test methods

Test methods (TM) referred to in the tables are available on request.

### Provisional product specification

Property	Range	Unit	TM
Solids content	39-41	m/m %	2401
Viscosity 23°C	100-900	mPa.s	2405
pH	7- 9	-	-
Appearance	Milky	-	2265

### Other product data

Property	Value	Unit	TM
Density 23°C	ca. 1030	kg / m3	2409
Oil length	Appr 50%	-	-
Particle size	100-150	nm	
VOC	20	g / l	

#### Guidelines for use.

OxyMul 50 AQ-40 is a medium oil alkyd emulsion, stabilized by external surfactants. The oils and fatty acids of OxyMul 50 AQ-40 are locally sourced from agricultural stocks. Due to the reactive nature of the used oils, OxyMul 50 AQ-40 dries in 2-4 hours, depending on the conditions and the metal driers used. In general, the regular metal drying catalysts used for solvent borne alkyd paints, can also be used for OxyMul 50 AQ-40. 0,2% m/m Borchers Oxycat Iron drying catalyst on OxyMul 50 AQ-40 on delivery form is the general drier advise. OxyMul 50 AQ-40 is shear thinning, so has a higher viscosity at low shear rates. The viscosity of OxyMul 50 AQ-40 is pH dependent. Polar solvents like propylene glycol can negatively influence the film formation, so should be used in the lowest possible amount. OxyMul 50 AQ-40 is designed to deliver a relatively soft, flexible coating, enabling the coating film to expand and shrink with the natural movement of the wood. Specific start formulations for coatings can be obtained via the Ligno Ferox web-site.