47 % Bio-based content*

INOKEM® UR 3304

Water-based modified polyurethane

ecoat
RESPECT THE FUTURE

**Based on C content according to EN 16640*

Main characteristics:

- **40% solid content**
- Quick **drying**
- Good **chemical res.**
- **Easy to formulate**
- Good **weathering res.**
- Hydrophobic polymer
- Lower CO2 footprint vs PUD and acrylics

Key benefits in paints:

- Good levelling for **high gloss paints**
- Good **adhesion** on various metals and alloys
- **Rheology** similar to solvent-based paints
- Enables the same level of performance as solventborne systems

Climate change impact vs references at the gate

Details of the study:
- LCA study carried out internally using SimaPro v9.5 software and IPCC2021 GWP100 method with inclusion of the CO2 storage effect of biogenic carbon
- Cradle to manufacturer gate study - product without packaging (commercial form)
- Inokem® UR 3304 : model made using Ecoinvent v3.8 cut-off database and supplier specific data. Values given in good faith according to current Ecoat know-how - June 2024 assessment
- Petrobased references : LCA study results of the European Polymer Dispersions and Latex Association (EPDLA) made by PricewaterhouseCoopers

PUD binder (44% solid) **-66,8%**

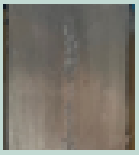
CO_2

Inokem® UR 3304 (40% solid)

Pure acrylic binder (50% solid) **-35,8%**

Benchmark on satin black paint: Salt Spray Test

Salt Spray Test: ISO 9227 & ISO 12944-6
Blistering: ISO 4628-2
Rusting: ISO 4628-3

Reference	100 hours	200 hours	300 hours	400 hours	500 hours	Delamination
INOKEM® UR 3304 PU alkyd **85 µm**						Blistering 2(S2) Rusting Ri 0	
Solvent-based competitor 1 Alkyd **105 µm**						Blistering 3(S4) Rusting Ri 0	
Water-based competitor 2 Acrylic **87 µm**						Blistering 5(S5) Rusting Ri 5