

NECOWEL 720

Polyol component for fast-drying water based 2K PU lacquers systems

Product properties

NECOWEL 720 is a polyol component to formulate high quality 2K PU lacquers. The emulsion does not contain APEO and is free of VOC and SVOC.

NECOWEL 720 has a high molecular weight polyester backbone and incorporated building blocks which increase the reactivity towards isocyanates. This modification fastens drying time up to 3 hours and achieves pendulum hardness above 150 seconds after seven days while maintaining a pot-life greater than 6h. The cured PU-coating, clear-coat and topcoat, provides high gloss retention as well as an excellent scratch, chemical and weathering resistance.

As crosslinker HDI and IPDI based oligomeric polyisocyanates are recommended. Basically hydrophylic isocyanates specially designed for waterborne systems, as well as common hydrophobic types can be used. Best results have been obtained by a mixture of both. As usual in PU systems, an excess of crosslinker is recommended (e.g. 150 % isocyanate). In combination with appropriate hardeners film thicknesses of more than 100 µm can be achieved without blistering.

Application

- 2K PU Lacquers

Analytical data

- Solid content: 38 – 41 % in water
- Viscosity: 0.5 – 3.0 Pa.s, 25 °C
- pH-value: 6.5 – 7.5
- OH-value: 165 - 215 mg KOH/g (5.0 – 6.5 %)

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.