

Indunal T 147

- ◆ Emulsion polymer based on acrylates, carboxylated

**Fields of Application: Architectural Coatings, Wood Finishing, Adhesives,
Paper Finishing, Household Cleaners, Textile Finishing**

- ◆ Acrylic thickener for emulsion paints and plasters, wood lacquers and stains, adhesives, paper coatings, household cleaners (i. e. scouring fluids) and textile coatings.

Performance and Characteristics:

- ◆ excellent thixotropic thickening effect
- ◆ stabilisation of pigments and fillers
- ◆ excellent water retention value

Appearance	:	white emulsion
Solid Contents * (DIN EN ISO 3251)	:	29 – 31 %
Viscosity at 20°C (DIN 53019-1) (Anton Paar RheolabQC; MS: CC27; D=38.7 s ⁻¹)	:	< 250 mPa·s
pH Value * (DIN ISO 976)	:	2.5 – 3.5
Acid Value * (DIN ISO 2114)	:	50 – 60 mg KOH/g emulsion
Viscosity of the hydrosol (20°C) (Anton Paar RheolabQC; MS: CC27) 24 h after the neutralization (pH 7.5 – 10.5)	:	appr. 350 mPa·s (D=38.7 s ⁻¹) at 0.5 % solids appr. 1.100 mPa·s (D=9.24 s ⁻¹) at 1.5 % solids
Ionicity	:	anionic
Freeze/Thaw Stability	:	unstable
2002-01-15 / Version 04		
* Specification value listed in our certificate of analysis		

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Remarks:

Indunal T 147 has to be diluted 1:3 with water before neutralization with sodium hydroxide solution, ammonia solution or amines. The obtained solutions are at high solids glutinous but not “stringy” and have a flow limit. Before addition of this thickener solution, emulsion polymers should have a minimum pH value of 8.0.

We also recommend thickening “in situ” prior to neutralization. In this case Indunal T 147 is diluted 1:3 with water and then added under stirring to the material to be thickened. The pH of the mixture is then adjusted to 7 – 9.

Anionic surfactants, other electrolytes or too high alkali content reduces the thickening effect significantly.

The compatibility of Indunal T 147 with the grinding or let-down vehicles has to be tested before using in printing inks.

Used in scouring fluids (produced without binders or anionic surfactants) Indunal T 147 provides not only a thickening effect but also the stabilisation of the fillers. Therefore it prevents serum formation and sedimentation.

Used in paper coatings Indunal T 147 shows an excellent water retention value, a good thickening effect and an excellent rheological behavior.

Starting Formulations:

- No. 98 abrasive cleaner
- No. 99 texture plaster
- No. 210 white dull matt interior paint

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