# Indunal T 1420

- Terpolymeric carboxylated acrylic emulsion

**Fields of Application:** **Printing Inks and Overprint Varnishes, Architectural coatings**

- Acrylic thickener/binder for emulsion paints, water-based printings inks and overprint varnishes
- Acrylic thickener for emulsion paints and plasters

**Performance:**

- regulation of viscosity and rheology
- excellent resolubility
- very good transfer
- very high hydrosol viscosity

| | | |
|---|---|---|
| **Appearance** | : | white emulsion |
| **Solid Contents*** (DIN EN ISO 3251) | : | 24 – 26 % |
| **Viscosity** at 20°C (DIN 53019-1)<br>(Anton Paar RheolabQC; MS: CC27; D=121 $s^{-1}$) | : | < 100 mPa·s |
| **pH Value*** (DIN ISO 976) | : | 4.0 – 4.6 |
| **MFFT** (DIN ISO 2115) | : | appr. + 42°C |
| **Acid Value*** (DIN ISO 2114) | : | 180 – 195 mg KOH/g solids |
| **Viscosity of the hydrosol** (20°C)<br>(Anton Paar RheolabQC; MS: CC27; D=18.23 $s^{-1}$)<br>30 minutes after the neutralization | : | appr. 4,000 mPa·s<br>at 2.5 % solids |
| **Ionicity** | : | anionic |
| **Freeze/Thaw Stability** | : | unstable |

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* Specification value listed in our certificate of analysis

**please turn**



Indulor Chemie GmbH · Schulstrasse 3 · D- 49577 Ankum
Tel: +49 5462 7412-0 · Fax: +49 5462 7412-74

Indulor AG · Industriestrasse 49 · CH- 6300 Zug
Tel: +41 41 76899-88 · Fax: +41 41 76899-89

info@indulor.de
www.indulor.de

# Indunal T 1420

**Remarks:**

Indunal T 1420 may be used not only as thickener but also as binder.

Indunal T 1420 has to be diluted with water to a content of appr. 10 % before neutralization with sodium hydroxide solution, ammonia solution or amines. 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 1420 is diluted 1:3 with water before adding under stirring to the system to be thickened. The pH of the mixture is then adjusted to pH 8 – 9.

The use of Indunal T 1420 allows the regulation of viscosity and rheology and the manufacture of low-cost water-based printing inks for corrugated board and paper bags.

**Neutralization:**

| | |
|---|---|
| 178.7 g | Water |
| 20.0 g | Indunal T 1420 |
| appr. 1.3 g | Ammonia Solution 25 % |
| 200.0 g | |

Viscosity: appr. 4000 mPa·s (Anton Paar RheolabQC; MS: CC27; D=18.23 $s^{-1}$) after 30 min.
PH value: 8.5 – 9.0





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www.indulor.de