



## SYNTHALAT TH 4450

Polyisocyanate-curing acrylic resin for easy-to-clean and anti-ice coatings

### FIELDS OF APPLICATION

**Synthalat TH 4450** is, in combination with (cyclo-) aliphatic polyisocyanates, excellent for 2 pack air- and oven drying top coats for industrial and vehicle coatings.

Areas of application could be (but not limited to), aircrafts and wind energy plants, ships, yachts, OEM cars, busses, trucks, motorcycles, bikes, trains, wheels, furniture, electronics, glasses, plastics etc.

Because of the very low surface tension the materials overcoatability needs to be checked, this could be possible with a combination with other acrylic resins.

### HIGHLIGHTS

- **Easy-to-clean effect**
- **Anti-ice effect and anti-insect effect**
- **Stain resistant**
- **High appearance and highly hydrophobic**
- **Good adhesion on metal and plastic surfaces**



**PROPERTIES AND TECHNICAL DATA**

Viscosity/23 °C	500 – 2,500 mPa*s
Non-volatile content (nfA)	55 +/- 1 % in methoxy propyl acetate
Hydroxyl value	160 – 190
Hydroxyl content	ca. 5.3 %
Colour value (Gardner)	< 2
Flash point in °C	ca. 42
Density in g/ml	ca. 1.00

**PROPERTIES IN CURED FILM**

Properties	Synthalat A-TH 4450	Standard 2K-Hydroxyacrylate
Contact angle water [°]	ca. 106	85 – 90
Contact angle Diiodmethan [°]	ca. 74	40 – 50
Roll angle water [°]	ca. 24	≥ 90
Ice rain test -> Icing degree	0	4 – 5
Free surface energy [mN/m]	ca. 20	35 – 40

**SAMPLING**

Ordering samples of **Synthalat TH 4450** can be done easily on our website.

**CONTACT**

If you are interested in more information about our products please contact your known person in charge from the sales or research and development department or our headquarters directly under following references:

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