Product code: 448836

# DOMOPOL 6181 75 X

## Saturated Polyester Resin (Branched Polyester Polyol)

**Specification:**

| Property | Range | Method / According to standard |
|---|---|---|
| Non-volatile matter | 74 - 76% | MH1155 / ISO 3251 |
| Acid value on solid resin | max. 15 mg KOH/g | MH1051 / ISO 2114 |
| Hydroxyl value on solid resin | 145 - 180 KOH/g | MH1052 / ISO 4629 |
| Viscosity, 23 ºC | 6000 - 9000 mPa·s | MH1007 / ISO 3219 |
| Colour | max. 150 APHA | MH1125 / ISO 6271 |

**Typical properties:**

| Property | Value |
|---|---|
| Density | 1.1 kg/L |
| Flash point | 28 °C |
| Hydroxyl content on solid | 5% |
| Water content | max. 0.1 wt.% |
| Maximum ISSC PLUS-certified content allocated using the mass balance approach, on a dry solids basis | 45% |

**Remarks:**

The share of ISCC PLUS certified material is determined individually for each delivery based on the applicable mass balance allocation and is specified in the corresponding Sustainability Declaration. The validity of the ISCC PLUS certificate can be verified via the official website (https://iscc-system.org/).

**Solubility:**

Soluble in Solvesso 100, xylene, acetone, ethyl acetate, methoxy propyl acetate and methyl isobutyl ketone.

**Compatibility:**

- Compatible with isocyanate resins: Desmodur HL, Desmodur IL, Desmodur L, Desmodur N and other binders: Domopol 6080, Domopol 6011, Domopol 6067.
- Incompatible with Domacryl hydroxy resins.

**Applications:**

- Domopol 6181 75 X is used in the formulation of coatings for wood, e. g. furniture, boats and parquet flooring.
- It is used as a co-reactant with isocyanate resins in the formulation of air- drying two-pack systems with excellent corrosion resistance and superior outdoor durability.
- Crosslinking with aliphatic isocyanates is recommended for the formulation of non-yellowing finishing.
- The best results are achieved in the region of the theoretical mixing ratio with isocyanate. Over and under- crosslinking is possible within certain limits.
- To accelerate the reaction, organic catalysts can be used: DEAE, DBTD or Zn octoate.


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**Issue Date: October 2026**

**Storage:**

The resin should be stored indoors in its original, unopened and undamaged container in a dry place at storage temperatures below 35 °C, for up to 12 months. Exposure to direct sunlight should be avoided.

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This data is based on experience, for its completeness, we assume no liability. As we take no influence on the processing, it lies within the obligation of the customer to test, whether it is suitable for the intended purpose, before using the product. Any change in the processing procedure, the environmental conditions or the failure to comply with instructions may unfavorably influence the result. This Technical Datasheet is available on our website at www.helios.si. Should there be any discrepancies between this document and the version that appears on the website, then the version on the Website will take precedence.