

Synolite™ 1571-T-1

Isophthalic/NPG resin (Group 3) for Hot cure CIPP/Relining

Synolite™ 1571-T-1 is a thixotropic Iso/NPG resin with a great track record in Hot cure CIPP/Relining.

Through the excellent wet out of ATH fillers and low inherent shrinkage (low cracking sensitivity), installed liners are strong and closely following the host pipe.

Benefits

- Low shrinkage, nicely following host pipe
- Good mechanical strength
- Fast installation (hot water and steam cure)
- Installation robustness through combination of long resin pot life and fast cure

Major Applications

Synolite™ 1571-T-1 has been especially developed for the pipe rehabilitation process.

Certifications and Approvals

The chemical composition meets the German norm DIN 18820 Group 3 (Neopentyl glycol / Isophthalic acid).

Product Specifications

| Property | Value | Unit | TM |
|--------------------------------------|-------------|----------|----------|
| Solids content | 50.5 - 53 | % | TM 2033 |
| Viscosity 23 °C, 2 s ⁻¹ | 2100 - 3000 | mPa.s | TM 2313 |
| Viscosity 23 °C, 20 s ⁻¹ | 740 - 900 | mPa.s | TM 2313 |
| Viscosity 23 °C, 50 s ⁻¹ | 540 - 660 | mPa.s | TM 2313 |
| Viscosity 23 °C, 250 s ⁻¹ | 360 - 430 | mPa.s | TM 2313 |
| Minimum pot life | 50 | min | TM 2301B |
| Acid value | 12 - 15 | mg KOH/g | TM 2401 |
| Gel time Physical | 12 - 16 | min | TM 2259 |
| Gel time 25 °C to Tmax | 15 - 20 | min | TM 2259 |
| Peak temperature | 190 - 220 | °C | TM 2259 |

TM 2259 and TM 2301B : 1.0 g Cobalt accelerator (1%) + 1.0 g t-butyl peroxybenzoate + 0.8 g Di(4-tert-butylcyclohexyl) peroxydicarbonate)

| Liquid | | | |
|--------------------------------------|-----------|-------------------|---------|
| Property | Value | Unit | TM |
| Density 23 °C | 1060 | kg/m ³ | TM 2160 |
| Flash point | 33 | °C | TM 2800 |
| Stability (no initiator, dark, 25°C) | 6 | month | |
| Color | Yellowish | - | |

| Solid Unfilled | | | |
|-------------------------|-------|-------------------|-----------|
| Property | Value | Unit | TM |
| Density 23 °C | 1150 | kg/m ³ | DIN 53479 |
| Tensile strength | 70 | MPa | ISO 527-2 |
| Tensile modulus | 3.5 | GPa | ISO 527-2 |
| Elongation at break | 2.3 | % | ISO 527-2 |
| Flexural strength | 115 | MPa | ISO 178 |
| Flexural E-Modulus | 3.7 | GPa | ISO 178 |
| HDT | 102 | °C | ASTM D648 |
| Metric volume shrinkage | 8 | % | |
| Impact strength | 10 | kJ/m ² | ISO 179 |

Application Guidelines

Before use, the resin should be conditioned at a well-defined, application dependent temperature (usually 15°C minimum for a MEKP / Cobalt cure). Stir the product before blending.

Storage Guidelines

The resin should be stored indoors in a dry place at temperature tight and undamaged packaging.

The properties of the resin may change slightly during storage.

Material Safety

A Material Safety Data Sheet of this product is available on request.

Test Methods

Test methods (TM) referred to in the table(s) are available on request.

ISO 9001:2015 Certified

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Contact us for more information

We will help you to choose the right resin solution.

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