

SCoat 032

References :

Polyol: SCoat 032-Polyol-SC032000

Isocyanate: SCoat 032-ISO-SC000032

Definition :

→ **SCoat 032 :**

Transparent and UV-stable polyurethane resin, designed for the surfacing, coating or protection of surfaces. Can be used indoors or outdoors. Fast curing for multiple layer application, strong adhesion to different types of prepared (non-greasy, dust free) surfaces. Glossy aspect, can be sanded or polished.

VOC-free, REACH-compatible material complying with the following European Directives:

- 2011/65/EU – 2015/863 – 2017/2102/EU (RoHS 1 and 2)
- 2002/96/EC (WEEE)
- 2000/53/EC (ELVs)
- 2000/11/EC

Average physical properties of the components :

| | SCoat 032 Polyol SC 032 000 | SCoat 032 Iso SC 000 032 | SCoat 032 Mix SC 032 032 |
|---|--|-------------------------------------|---|
| Aspect | Transparent liquid | Transparent liquid | Transparent liquid Transparent solid |
| Hazen coloration (on 50mm) of the solid material | - | - | 74 |
| Brookfield LVT viscosity (mPa.s) According to MO-051 | 650 | 1200 | 800 |
| Density at 25°C According to MO-032 | 1,07 | 1,16 | 1,12 |

Application properties :

| | SCoat 032 Polyol SC 032 000 | SCoat 032 Iso SC 000 032 | SCoat 032 Mix SC 032 032 |
|--|--|-------------------------------------|-------------------------------------|
| Mixing ratio by weight | 100 | 90 | |
| Mixing ratio by volume | 100 | 83 | |
| Mixing time at 25°C | | | 2 min. |
| Potlife on 190g at 25°C According to MO-062 | | | 45 min. |
| Dust-dry time at 23°C (on 2mm) | | | 1h 20 min. |
| Complete hardening at 23°C (on 2mm) According to MO-116 | | | 24h |

The values mentioned on this document are based on tests and researches carried out in SYNTHENE's laboratory, in precise conditions. This document cannot be, in any case, considered as a specification data sheet. It is the responsibility of the users to check the suitability of the product in their own conditions, defined and tried by themselves. Synthene company disclaims any responsibility for any consequence occurred by the use of this product.

Average mechanical properties of the cured material :

- **Average data obtained after stabilisation: 24h at room temperature**

| | Standard | Unit | Values SCoat 032 |
|----------|----------------|----------|------------------|
| Hardness | ISO 868 : 2003 | Shore D1 | 85 |

Hygiene and safety for using :

Wearing appropriate clothes and accessories (gloves, glasses) is advised.

Work in a ventilated room.

For more information, please read the Medical and Safety Data Sheet of the material.

Application process :**→ For a coating or surfacing application :**

1. Prepare the support: the support must be dry, clean, and dust-free in order to eliminate any trace of substance that can be detrimental to the adhesion (oil, paint, grease, glue or varnish...).
2. Both for outdoor and indoor applications, the support temperature should be at least 3°C above dew point before the application. The support moisture rate should not exceed 5%.
3. Rehomogenise and weigh the polyol and the isocyanate in a clean mixing cup. Duly mix the two components together, making sure that the mix is homogeneous (2 minutes).
4. Pour the mixture in a second cup, without scrapping the bottom neither trying to get the residues back from the first mixing cup walls (in order to avoid problems linked to an inhomogeneous mix). Mix again in the second cup for approximately 1 minute.
5. If necessary, and depending on the application, degas the mixture with a vacuum pump in order to release the air bubbles that have been incorporated during the mixing step.
6. Depending on the support to cover, it is possible to cast the product directly over the part, or to spread it with a paint brush, a squeegee, or a serrated trowel according to the requested thickness.
7. In case of bubble appearance on a horizontal part, it is possible to heat the surface while the product is still liquid, in order to correct potential defects.
8. Curing at room temperature.
9. Curing conditions:
 - Dust-free time: 1 h 20 min
 - Hardening for a 2nd layer application: 3 hours
 - Complete hardening: 24 hours

Packaging :

- Parcel of 6 kits of (1,0 kg polyol + 0,9 kg isocyanate) = 11,4 kg

Storage :

Storage time in original and unopened containers, stored between 15 and 25 °C.

- Polyol : 12 months
- Isocyanate : 18 months

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