

**DEGADUR® 527**

Middle-viscous methacrylate resin for manufacturing of 2-component clear or pigmented hard topcoats on DEGADUR® coatings in dry areas.

**Typical properties**

| Property                  | Value                          | Unit              | Method                                 |
|---------------------------|--------------------------------|-------------------|--|
| Form supplied             | Bluish, slightly turbid liquid |                   |  |
| Viscosity at 23 °C        | 136 - 204                      | mPas              | Brookfield DV2, sp. 2/60 rpm           |
| Density at 20 °C          | 0.989                          | g/cm <sup>3</sup> | DIN 51757                              |
| T <sub>max</sub> at 23 °C | 22 - 37 min /<br>110 - 150 °C  |                   | 30.0 g DEGADUR® 527 +<br>0.3 g BPO 50% |
| Flash point               | 10                             | °C                | MMA, DIN 51755                         |

**General remarks**

|                    |  |
|--------------------|--|
| Activator          | DEGADUR® 527 is preactivated for temperatures from 5 °C to 30 °C.  |
| Initiator/Hardener | BPO-Hardener (50 %), depending on temperature  |
| Shelf life         | at ≤ 25 °C minimum 12 months in original containers / from date of delivery<br>at ≤ 30 °C minimum 6 months in original containers / from date of delivery              |
| Storage            | Protect against direct sunlight. At temperatures below 15 °C the paraffin dissolved in the binder may precipitate. The material must be stirred thoroughly before use. |
| Packaging          | Steel drum, 190 kg net   |
| More accounts      | This product contains max. 40 g/l residual volatiles (ASTM 2369 Method E).   |

**Properties**

Hard, clear or pigmented topcoat for all coatings in dry areas based on DEGADUR® BODY COAT resins. DEGADUR® 527 shows high abrasion resistance.

**Application**

In order to achieve best curing it is necessary to apply DEGADUR® 527 with a minimum thickness of about 0.4 mm (400 g/m<sup>2</sup>), and at least 0.3 mm (300 g/m<sup>2</sup>) on smooth surfaces each workstep. To ensure the right slip-resistance and to avoid yellowing and flaking a maximum of about 0.8 mm (800 g/m<sup>2</sup>) should be applied. The total quantity of catalysed DEGADUR® 527 is completely poured onto the coating and distributed by means of a rubber blade if the surface is smooth. In case of broadcast surfaces the rubber blade should be finely serrated (3 mm teeth).

Best results are achieved on smooth surfaces with a subsequently use of a short-hair roller (Mohair, 4 mm pile woven). However, it is recommended to use Polyamid-roller with 12 mm pile woven onto broadcast surfaces. Pigment-powder amount of 5 - 10 % by wt. is possible. During the time stirring in the pigment-powder the temperature should not exceed 35 °C. The shelf life of pigmented topcoats is limited and must be tested.

**DEGADUR® 527****Pot life and hardening time at different temperatures:**

| Temperature [°C]**) | Hardener [% by wt.]*) | Pot life [min] ***) | Hardening time [min] |
|---------------------|-----------------------|---------------------|----------------------|
| 10                  | 1.5                   | approx. 25          | approx. 45           |
| 20                  | 1.5                   | approx. 15          | approx. 35           |
| 25                  | 1.0                   | approx. 12          | approx. 25           |

\*) Quantity calculated on DEGADUR® 527.

\*\*) Temperature statements refer to resin-, floor- and air-temperature.

\*\*\*) The indication of the approximate pot life always refers to the lower temperature.

Note: All values are derived from laboratory tests. Deviations caused by environmental factors might occur.

**More accounts**

DEGADUR® 527 topcoat may not be applied on DEGADUR® 332 coatings since small hair cracks might appear due to the extreme difference in flexibility between base coat and the hard topcoat.

To avoid yellowing the hardener quantities must be kept as shown in the table.

Use efficient air ventilation in order to provide a safe curing of topcoat.

Due to the thermoplastic character of DEGADUR® 527 black tire-marks (skid marks) can appear from forklift trucks.

Typical properties are approximate reference values. If you need product specifications please contact us.

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