

## Anti-Scratch varnish 300-1 Technical data sheet

Product name: **300-1**

Code: **168700**

### 1. General

The 300-1 varnish is a polysiloxane-based coating protecting against the effects of scratching and abrasion. It is suitable for the coating of POLYCARBONATE, CR 39® and POLYMETHYLMETHACRYLATE.

300-1 is used without primer treatment. It can be applied by a variety of techniques followed by a cure cycle at about 75 min at 120°C or 3 h à 80°C for full reticulation.

### 2. Properties

Aspect	Colourless liquid
Content	29-31% (according to PMC Isochem specifications)
Density at 20°C	0.955-0.965 (according to PMC Isochem specifications)
Viscosity at 20°C	~ 44 s. (15 mP.s - AFNOR T 30014 Cup n°2.5 – according to PMC Isochem specifications)
Shelf life*	8 months at -20 ±5 °C 4 months at +5 ±3 °C 6 weeks at +20 ±5 °C
Flash point	32°C
pH (20°C)	4.3-4.9 (according to PMC Isochem specifications)
Solvents	n-Butanol (61%), Methanol (23%), Ethanol (7%), Eau (9%)

(\*) from production date and including transportation at room temperature

### 3. Application techniques:

- Dip,
- Flow-coating,
- Spray,
- Rotation.

#### 4. Application process

Working place:

- Properly ventilated area
- Dust free
- Relative humidity of 30 to 50%

Preparation of the area to coat:

- Wash with a detergent solution in order to get rid of dust, fats or residue of protection
- Ultrasonic cleaning is necessary

Application :

- Varnish temperature 15-20°C
- Varnish filtration 1 micron
- Dust-free drying 5 min at 70°C in infrared channel
- Curing 180 min at 90°C (PolyMethylMethacrylate)  
75 min at 120°C (Polycarbonate)

Cleaning:

- Current cleaning : wash with n-butanol
- Deep cleaning: wash with 1% aqueous caustic soda

#### 5. Concentration adjustment

- With n-butanol

#### 6. Coating performance

Aspect	Clear and transparent
Refractive Index	1.45
0000 steal wool abrasion test	Excellent
Adhesion	Excellent: no delamination after immersion for 30 min in boiling water

#### 7. Packaging

1L sample and 5 kg : HDPE Jerrycan – Other upon request

#### 8. Contact

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