



Anti-Scratch varnish VAG-O

Technical data sheet

Product name: **VAG-O**
Code: **168730**

1. General

The VAG-O 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.

Its main application is as coating for **gold** and **silver** surfaces.

VAG-O 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	32-34% (according to ISOICHEM specifications)
Density at 20°C	0.97-0.98 (according to ISOICHEM specifications)
Viscosity at 20°C	~ 35 s. (10 mP.s - AFNOR T 30014 Cup n°2.5 – according to ISOICHEM 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)	4.4-4.8 (according to ISOICHEM specifications)
Solvents	Methanol (70%), n-Butanol (20%), Eau (10%)

(*) 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
- Concentration adjustment with n-butanol
- Varnish filtration 1 micron
- Dust-free drying 30 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
Adhesion to gold and silver coating	Excellent

7. Packaging

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

8. Contact

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