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# REGAL RETOUCHING VARNISH

## *Retouching varnish with high stability*

**Regal Retouching Varnish** combines the high stability typical of **Regal line** varnishes with the possibility of intervening over it with varnish colours, both with the classic Maimeri colours based on mastic resin, and with the innovative Gamblin colours based on Laropal A81.

In fact, just the urea-aldehyde resin Laropal A81 is the main component of **Regal Retouching Varnish**. Numerous studies [1,2] have determined the resistance to aging of this resin, which is increased with the addition of the stabilizer Tinuvin 292.

**Regal Retouching Varnish** is transparent, and gives rise to a colourless and stable film, providing a good yield both by brush and spray application.

De-aromatized petroleum essence with a boiling point at 140-160°C is the recommended solvent for dilution, especially for spray application.

Higher opacity effects can be achieved with lower boiling solvents, such as ligroin.

**Regal Retouching Varnish** can also be applied to porous and absorbent paintings, which can alternatively be pre-varnished with an isolating varnish such as Gustav Berger's O.F. Isolating PVA Spray Varnish.

**Regal Retouching Varnish** can also be used as a final varnish, since it combines an excellent optical function, of colour saturation, with a protective function against external agents. The high glass transition temperature (Tg), 49°C, ensures that softening phenomena and consequent absorption of dust cannot occur.

The final paint **Regal Varnish**, based on aliphatic resin Regalrez 1094, in the two versions **Gloss** and **Mat**, as well as any other final varnish, can be applied on it.

C.T.S. S.r.l. was the first company to have introduced in Italy the components of this new generation of varnishes, and since 2003 it has conducted numerous studies aimed at verifying the stability of the materials [3,4].

### Packages:

**Regal Retouching Varnish:** 1 l and 400 ml Spray

### N.B.

*For packaging of our Varnish Spray line, we used high quality cylinders, with a safety cap that guarantees no accidental opening (for exemple during the transport).*

*For easy opening it is recommended to use a slotted screwdriver, inserting it into the slot in the cap and turning it slightly until the cap is released.*

### References

1. de la Rie E.R.; McGlinchey C.W.; "New synthetic resins for picture varnishes" e Leonard M.; "Some observations on the use and appearance of two new synthetic resins for picture varnishes", in *Cleaning, retouching and coatings*, Ed. Mills & Smith, Londra (1990).
2. de la Rie E.R., Quillen Lomax S., Palmer M., Maines C.A.; *An investigation of the photochemical stability of films of the urea-aldehyde resins Laropal A81 and Laropal A 101*; ICOM Committee for Conservation 2002, Vol.II.
3. Borgioli L., Camaiti M.; "Stabilizzazione di polimeri per la verniciatura dei dipinti", Atti del Convegno "Colore e conservazione", Thiene (VI), 29-30 Ottobre 2004.
4. Borgioli L., Camaiti M., Rosi L.; "Comportamento all'irraggiamento UV di nuovi formulati polimerici per il restauro", Atti del Congresso "Lo stato dell'arte 6", Spoleto, 2-4 Ottobre 2008.

The information contained in this sheet is based on our knowledge and laboratory tests at the date of the last version. Users must verify the suitability of the product for the specific use by preliminary tests, and is required to comply with the laws and regulations in force concerning safety and hygiene.

C.T.S. S.r.l. guarantees the constant quality of the product but is not liable for any damage caused by improper use of the material, since it is designed for **professional use**. Moreover, they can change at any time components and packaging without prior notice at any time.