

WE 203

WATER-BASED VARNISH

THERMAL CLASS: H (180°C)

OVEN CURED

- ✓ Moisture resistant
 - ✓ Chemical resistant
 - ✓ High bonding power
 - ✓ Compatible with enameled wires and other insulators
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FIELD OF APPLICATION

Suitable for electrotechnical materials requiring thermal resistance of Class H, hermetic motor units, etc.

INSTRUCTIONS FOR USE

It is recommended to preheat the parts to 40–50°C to facilitate the penetration of the varnish inside the winding (ensuring that the temperature of the varnish does not exceed 40°C after consecutive applications to prevent agglomeration and impregnation defects), especially in the case of motors wound with fine wires.

The piece must be kept until air bubbles disappear, then drained before oven polymerization.

It is advisable to use an impregnation tank made of stainless steel or plastic to avoid possible oxidation phenomena.

Polymerization:

After maintaining the temperature at approximately 95°C for 1 to 3 hours to completely remove the solvent, we recommend the following polymerization conditions:

- 3 hours at 150°C, or



COTOCABLE

TECHNICAL SHEET

- 1 hour at 180°C for materials without chemical resistance requirements.
- 4 hours at 150°C or 1.3 hours at 180°C when full chemical resistance is required.

These polymerization conditions may vary depending on the size or geometry of the parts to be treated.

PROPERTY	25%	28%	50%	56%	70%
Colour	Yellow				
Density at 20°C (g/cm ³)	1.01	1.02	1.03	1.04	—
Viscosity Ford Cup N°4 at 20°C (s)	15±3	17±5	60±10	65±10	70±10
Solid content (%)	25±2	28±2	50±2	56±2	70±2
pH	—	—	8.5	—	—
Flash point (closed crucible)	—	—	56	—	—
Storage stability at 20°C (months)	—	—	4 months	—	—
Dielectric breakdown 0.02 mm (V)	—	—	>1100V	—	—
Dielectric constant at 20°C	—	—	2.01	—	—
Loss factor at 20°C	—	—	0.0071	—	—
Bonding strength 20/100/155°C (DaN)	—	—	20/9/2.5	—	—
UL Approval (°C)	—	—	180 (File Number E465060)	—	—

SUPPLY FORM AND RECOMMENDED USE

Supplied in 25 L plastic containers.

In internally treated sheet-metal drums of 200 L.