



COTOCABLE

TECHNICAL SHEET

ROYALAC 129

DIELECTRIC VARNISH

THERMAL CLASS: F (155°C)

AIR-DRYING TYPE

- ✓ Fast drying – thermosetting
 - ✓ High hardness
 - ✓ Excellent flexibility
 - ✓ Good mechanical properties
 - ✓ Resistance to abrasion
 - ✓ Resistance to chemicals and transformer oil
-

APPLICATION FIELD

The impregnation varnish **ROYALAC 129** is made from synthetic resins with extraordinary drying speed.

Its main advantage is the hardness it achieves after air drying, without losing flexibility. It has excellent resistance to abrasion, chemical agents (humidity, saline environments), and transformer oil.

Due to its characteristics, **ROYALAC 129** can be used in the construction and repair of motors, transformers, and materials that must operate under adverse conditions.

It is also used for coating printed circuit boards.

For finishing applications, it can be easily used in its **Royalspray 129** version.

APPLICATION METHOD

Traditional methods are used to apply the varnish, typically by immersion of the winding. If used as a finishing varnish, it can be applied with a **brush, spray gun, or dipping**.

The **drying time**, for example on a 5 HP motor, is approximately **2 to 3 hours** at **20°C**.

When the winding is of large dimensions or presents evaporation difficulties (closed windings), a **drying time of 2 hours at 100–120°C** is recommended.



COTOCABLE

TECHNICAL SHEET

When it is necessary to reduce viscosity, our **Diluent F-5** should be used.
Also available as a spray version (**Royalspray 129**) for easy finishing.

PHYSICAL CHARACTERISTICS

Property	ROYALAC 129
Color	Colorless, yellow, or orange
Density at 20°C (g/cm ³)	0.90
Ford Cup Viscosity No. 4 at 20°C (s)	18 ± 4
Solid content (%)	37 ± 2
Touch dry time (min)	12
Storage stability at 20°C (months)	12 (24 for Royalspray 129 version)
Dielectric strength at 0.02 mm (V)	>2500V

SUPPLY FORM

Supplied in **5 L and 25 L lithographed and pre-painted tin containers**.
Also available in **iron drums of 50, 100, and 200 liters**.
Spray version available in **400 mL cans** (orange or red color).