RESIN TECHNICAL SYSTEMS

RTS 101 (Clear or Black) RTS 102 (Black) and RTS 103 (Black) Electrical Resin

Two-Part, room cure, Semi-flexible, Epoxy Liquid Resin

"Resin Technical Systems" resin RTS 101 is a general purpose potting encapsulating material suitable for coils, transformers and other electrical or electronic components. It is supplied in a ready to use, easily dispensed, side by side cartridges. Two versions, which are increasingly thixotropic, are available (RTS 102 - thixotropic, RTS 103 – highly thixotropic) for applications where restricted flow or low-sag properties are required.

- Good thermal and mechanical shock resistance
- Good adhesion
- Simple and clean to use.

Typical Properties

Viscosity (centipose at 23°C) ¹	7000*	1
Specific Gravity ¹	1.1	2.
Gel Time (minutes at 23°C) ¹	150	3.
Electric Strength (kV/mm) ²	22	4.
Dielectric Constant (%0Hz at 23°C) ³	4.8	5.
Dissipation Factor (50Hz at 23°C) ³	0.1	6.
Volume Resistivity (ohm-cm at 23°C) ⁴	10 ¹³	
Tensile Strength (Mpa) ⁵	16	
Elongation (% at break) ⁵	74	
Hardness (shore D) ⁶	60	

Test Methods

DIN 16945 VDE 0303/IEC 243 VDE 0303/IEC 250 VDE 0303/IEC 93 DIN 53455/ISO-R527 DIN 53505/ISO-R868

*RTS 101 only. RTS 102 and RTS 130 versions are thixotropic and highly thixotropic and thus viscosity values are not quoted. All figures quoted are typical values and are not intended for specification purposes.

RTS 101 is available as an amber-clear product or can be supplied in colours. The thixotropic version, **RTS 102** and highly thixotropic version, **RTS 103** are available in black.

Handling Properties

Cure Guide: approx 2-3 days 23°C approx 2 hours at 60°C The appropriate curing schedule depends on the quantity of resin involved.

Mixing

The resin is supplied in a side by side cartridge, which is fitted into a simple mechanical/power gun. Mixing and dispensing is achieved through a static nozzle fitted to the front of the cartridge.

Storage

The cartridges should be stored in a cool, dry place and, when not in use, should be kept tightly closed. Shelf life when in bulk is up to 12 months if stored in a cool, dry place.

Handling Precautions

Many of the reactive materials used with epoxy resin have been reported to cause irritation to sensitive skin. The user is to avoid contact with the resin and hardener. Avoid eye contact. The use of protective clothing is suggested. If contact occurs, the skin should be washed immediately with mild soap and water. In case of eye contact, flush immediately with plenty of water for at least 10 minutes and consult your doctor. Use only in well ventilated areas and avoid prolonged or repeated breathing of vapours.

All statements, technical information and suggestions contained in this publication are based on tests believed to be reliable, but their accuracy and / or completeness are not guaranteed. The user shall determine the suitability of the product for his particular purpose and shall assume all risk and liability in connection therewith.

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