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♦ TECHNICAL BULLETIN ♦ TECHNICAL BULLETIN ♦ TECHNICAL BULLETIN ♦

Silicone Rubber RBC #7153

RBC #7153 is a lower viscosity, faster setting version of RBC #7141 which can be used for potting and encapsulating as well as mold making. When used with the proper catalyst this system can be cured in just minutes or can provide up to two hours of working time. RBC #7153 offers excellent physical and electrical properties.

HANDLING PROPERTIES:

Mixed Viscosity @ 25°C, cps	12,000
Shelf Life, (Closed Container @ 25°C)	6 Months

PHYSICAL PROPERTIES (CURED):

Color	White
Specific Gravity @ 25°C	1.30
Hardness, Shore A	50
Linear Shrinkage, in./in.	0.002
Elongation, % @ Yield	215
Tensile Strength @ 25°C, psi	525
Tear Resistance, lbs./in.	35

THERMAL PROPERTIES (CURED):

Thermal Conductivity, cal/sec/cm ² /°C/cm X 10 ⁻⁴	7.5
Coefficient of Thermal Expansion, in./in./°C X 10 ⁻⁵	11.0
Operating Temperature Range, °C	-70 to 205

ELECTRICAL PROPERTIES (CURED):

Volume Resistivity @ 25°C, ohm-cm	2x10 ¹⁵
Dielectric Strength, volts/mil	575
Dielectric Constant @ 25°C, 100 KC	3.75
Dissipation Factor @ 25°C, 100 KC	0.018

The above properties are based on Catalyst #720.

RECOMMENDED CATALYSTS:

- 714 Low viscosity, clear version of 720 for deep section cure.
- 720 Fast, room temperature cure catalyst, pigmented green, will not corrode copper.
Good resistance to inhibition.
- 725 Fastest room temperature cure catalyst for thin and medium section cure.
- 730 Fast, room temperature cure catalyst for deep sections.
- 740 Clear catalyst for thin section cure.

MIXING INSTRUCTIONS: Stir RBC #7153 in its shipping container prior to each use to insure uniformity. Use of power equipment is recommended. Weigh the desired amount of RBC #7153 in a clean container and combine with recommended catalyst is listed below.

Catalyst	Parts by wt. per 100 pts. resin	Pot Life 100 grms. @ 25°C.
714	5.0 - 10.0	1- 1½ Hours
720	5.0 - 10.0	1-1½ Hours
725	0.5 – 2.0	1 - 30 Minutes
730	0.25 - 0.50	30 - 45 Minutes
740	0.10 - 0.50	1-2 Hours

RECOMMENDED CURE SCHEDULE:

CATALYST	TACK FREE	CURE @ 25°C	CURE @ 65°C
714	2 - 4 Hours	4 - 10 Hours	1 - 1½ Hours
720	2 - 4 Hours	4 - 10 Hours	1 - 1½ Hours
725	3 - 60 Minutes	½ - 1½ Hours	-----
730	2 - 3 Hours	4 - 10 Hours	1 - 1½ Hours
740	2 - 3 Hours	4 - 10 Hours	1 - 1½ Hours