

Resin

PERMAFIL® 74043

- Solvent borne epoxy varnish
- High bond strength
- Good for hermetic applications
- Excellent tank stability
- Class 180°C using ASTM D2307

Description

PERMAFIL® 74043 is a traditional solvent borne epoxy resin for general purpose, hermetic and industrial applications. It is also useful for overcoating large machines for improved chemical and moisture protection.

Application

PERMAFIL® 74043 is useful in motor repair and OEM applications that require good chemical resistance, high bond strength and good shelf life in unchilled dip tanks. Its high bond strength also makes useful in strenuous applications and the excellent moisture resistance make it a good choice for severe duty washdown motors. NEMA RE-2 testing for R-22 refrigerant shows < 0.5% extractables.

Processing

For dip and bake cycles, preheat parts to 250-325°F (121°C-163°C) to remove moisture. If thermoset tapes are used, pre-set tapes according to tape manufacturer's recommendations. Next, cool parts to 130°-140°F (54.4°C - 60°C). Dip until bubbling stops (15-30 minutes) and drain between 5-20 minutes. Bake in a preheated oven at recommended time and temperature. Suggested cure time is a minimum of 2 hours at 165°C (329°F) after the part reaches temperature. For maximum chemical resistance, a minimum cure of 8 hours at 165°C is recommended.

Packaging

PERMAFIL® 74043 is available in 5-gallon pails, 55-gallon drums, 275-gallon tote containers.

Storage conditions – Shelf life

The shelf life for PERMAFIL® 74043 is 12 months when stored at room temperature (77°F, 25°C).

Health and safety

Safety Data Sheets defining the known hazards and describing safety precautions appropriate for this product are available upon request from Von Roll USA, Inc., Schenectady, NY, (518) 344-7100 and/or www.vonroll.com. Similar information for solvents and other chemicals to be used with this product may be obtained from the appropriate supplier and used accordingly. We recommend following all hygiene and safety standards while processing material.

Physical Properties	Test norm	Unit	Value
Viscosity Brookfield @ 23°C		cps	1500 +/- 200
Flash Point		°F (°C)	≥ 81 (27.2)
Film build on steel (avg.)	at 45% solids	mils (mm)	1.0 – 2.0 (.025-.051)
Total weight		lb/gal (kg/gal)	8.6 (3.9)
Solids Content		%	50
Mechanical Properties	Test norm	Unit	Value
Bond Strength, MW-35 @ 25°C	Helical coil	lb (N)	>45 (200)
@ 155°C	Helical coil	lb (N)	>12 (53)
Electrical Properties	Test norm	Unit	Value
Dielectric strength @ 23°C	50% R.H.	V/mil (kV/mm)	5000 (137)

Liability

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