

# Winding and bracing

## Permafil® 3285

- ▶ Putty for excellent gap fill
- ▶ Very low shrinkage
- ▶ Good electrical properties
- ▶ Fast cure

### General description

Permafil® is a two component filled polyester putty with very low shrinkage and excellent electrical and mechanical properties. It exhibits excellent resistance to petroleum products, alcohols, glycol, common acids. Permafil® 3285 performs very well in steam and salt water environments.

### Application

Permafil® 3285 is suggested for applications requiring a putty with excellent insulating properties such as sealing the ends of magnet and transformer coils as well as filling voids and large spaces in industrial motors and generators. It is also commonly used as a filling compound in commutators and slip rings to seal against dirt, oil, moisture and carbon build-up.

### Processing

Permafil® 3285 polyester putty can be applied with a conventional putty knife or with a pressure gun. The putty will not flow whether hot or cold and should be pressed into deep sections to insure solid filling. Although Permafil® 3285 bonds well to most materials, it is suggested that the surfaces be free of oil or grease to obtain the best bond.

Mixing: The entire contents of the 2 compartment kit, containing one part resin and one part powdered filler, must be thoroughly mixed or the putty will not properly harden.

Suggested curing cycle: For maximum electrical and mechanical properties, 8 hours at 90°C, 6 hours at 125°C, or 4 hours at 150°C after the part reaches temperature is recommended.

### Health and safety

Material Safety Data Sheets defining the known hazards and describing safety precautions appropriate for this product are available upon request from Von Roll USA, Inc., 200 Von Roll Drive, Schenectady, New York 12306 (518) 344-7100. Similar information sheets for solvents and other chemicals used with this product may be obtained from the appropriate supplier and used accordingly.

### Storage Conditions

Shelf life of unmixed VRI 3285 putty is at least six months if stored at room temperature and 12 months at 40°F when stored away from heat and direct sunlight. The mixed potlife at room temperature is 3-4 days, which can be extended to several weeks when refrigerated at 40°F.

### Order Data

Permafil® 3285 putty is available in 1 quart kits in multiples of 6 from Von Roll USA, Inc. or from authorized Von Roll distributors. For the name of your distributor or for more information on this product, contact our Customer Service department, (518) 344-7100.

### Specifications

The properties shown in this data sheet are typical values only, and should not be used as a basis for preparing specifications. Contact our Customer Service department, (518) 344-7100 for assistance in preparation of specifications for your specific system application.

The product properties set forth in this data sheet are based on the results of testing of typical material produced by the affiliated companies of Von Roll Holding Ltd.

		Value	Test norm
<b>Physical properties</b>			
Viscosity at 25°C		Putty	
<b>Weight</b>			
Solids content	%	100	
<b>Thermal properties</b>			
Thermal class		175°C Cont.. 200°C intermittent duty.	
<b>Electrical properties</b>			
Insulation resistance	Ohms.cm	1.8xE10	
Dielectric strength, Short Time	V/mil(kV/mm)	>900 (35.4)	ASTM D-115

(underneath referred as Von Roll). Some variation in product properties is typical. Comments or suggestions relating to any subject other than product properties are offered only to call the end-user's or other person's attention to considerations which may be relevant in the independent determination of the use and/or manner of use of product. Von Roll does not claim or warrant that the use of its product will have the results described in this data sheet or that the information provided is complete, accurate or useful. The user should test the product to determine its properties and its suitability for the intended use. Von Roll expressly disclaims any liability for any damage, harm, injury, cost or expense to any person resulting directly or indirectly from that person's reliance on any information contained in this data sheet. Nothing contained in this data sheet constitutes representation or warranty as to any matter whatsoever. Von Roll makes no warranties whatsoever in this data sheet, expressed or implied, including any implied warranty or fitness for a particular use or purpose. Von Roll shall in no event be liable for incidental, exemplary, punitive or consequential damages.