



PRODUCT INFORMATION

ULTIFIL 3000-010B

2 PART POLYURETHANE
BEIGE
RESILIENT
COST EFFECTIVE VOLUME FILL

ULTIFIL 3000-010XB POLYURETHANE INFILL COMPOUND

GENERAL DESCRIPTION

Ultifil 3000-010B is a beige, resilient, 2 part polyurethane infill compound. The system is designed to maximise cost effectiveness on a volume fill basis, whilst still maintaining a low mix viscosity. The product is best applied using dispensing machine equipment, on which short processing cycles and excellent component throughput can be achieved. The resin exhibits good adhesion to cases and minimum pressure on inserts, together with excellent moisture resistance, electrical and mechanical properties.

APPLICATION

For the encapsulation, sealing and potting of electronic and electrical components.

SPECIFICATION

PROPERTIES OF THE BASE -

Viscosity @ 25°C	poise	45 - 55
Specific gravity		1.40 - 1.50
Appearance		Beige

PROPERTIES OF THE HARDENER -

Viscosity @ 25°C	poise	1 - 2
Specific gravity		1.20 - 1.26
Appearance		Brown.

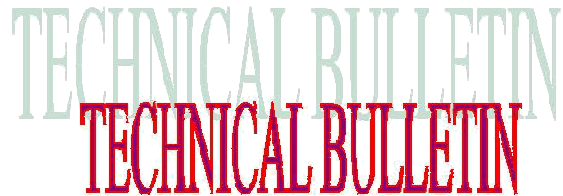
PROPERTIES OF THE MIXTURE -

Mix ratio base: hardener		7.60:1 pbw 6.48:1 pbv
Viscosity @ 25°C	poise	30 - 38
Specific gravity		1.35 - 1.50
Usable life 500 grams mass		5 mins at room temp.

NOTE: Due to the introduction of improvements from time to time the right is reserved to supply products that may differ slightly from those illustrated or described in this publication.

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PACKAGING

5 x 28.5 kg base
 1 x 30.75 kg hardener
 1 kg linkpack.

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WORKSHOP PRACTICE

Most problems occur with 2 part systems due to the failure to mix correctly. The following procedure is recommended:-

Stir the base component prior to mixing to ensure any settled filler is included. Where plastic lined returnable kegs are being used the stirring process should be restricted so as to not puncture the plastic bag. If time permits this initial stir is made easier if the base component only is heated to 30-40°C and stirred some hours before the 2 components are mixed. Use of still warm base component will reduce the usable life of the mixture.

This system is best mixed through a suitable mixing machine, but it can be mixed by hand. For hand mixing the components should be measured out by weight or volume, but it should be noted the usable life of the mixture decreases as the weight of the mix increases.

When hand mixing ensure the base and hardener are mixed thoroughly which can take up to 4-5 minutes. This leaves little time to pour the reacting mixture into moulds, it is therefore recommended sufficiently small allocates are mixed so the high wastage is avoided.

Water contamination of components, cases or the compound will cause problems of foaming on potted components. When using polyurethane compounds WATER CONTAMINATION SHOULD BE AVOIDED.

CURE SCHEDULE

500 grams mass hard	4 hrs	at room temp.
full	48 hrs	at room temp.

PROPERTIES OF CURED COMPOUND

Shore A hardness	DIN 53505	45-50	
Elongation at break	ISO 527	44	%
Water absorption @ 24 hrs	ISO 62	0.05	%
Thermal Conductivity	ISO 8894-1	0.28	W/M/K
Dielectric constant	IEC 250	4.1	@ 50 Hz
Dielectric strength	IEC 243	100	kV/cm
Dissipation factor	IEC 250	0.1	@ 50 Hz
Volume resistivity Log10 ohm	IEC 93	> 14	Ω/cm

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TECHNICAL BULLETIN
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STORAGE

Between 5°C and 30°C in sealed containers. Avoid contamination with moisture. Shelf life 12 months.

HEALTH & SAFETY

See relevant Material Safety Data Sheet.

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