



PRODUCT INFORMATION

ULTIFIL 3000-050CJ

ULTIFIL 3000-050CJ
TWO PART POLYURETHANE
SEMI RIGID
OPAQUE

ULTIFIL 3000-050CJ CABLE JOINTING COMPOUND

GENERAL DESCRIPTION

Ultifil 3000-050CJ is an opaque, semi rigid, two-part polyurethane infill compound. The system has a low viscosity and is easily processed. The resin exhibits good adhesion to plastic, XLPE, PVC and nylon and all types of metals. Once cured the resin provides excellent protection against moisture, salt, oil and many types of chemicals along with providing excellent electrical and mechanical properties.

APPLICATION

For the encapsulation of all types of cable joints, power cable, telecommunications, fibre optic cable, with copper or aluminium conductors.

SPECIFICATION

PROPERTIES OF THE BASE -

Viscosity @ 25°C	poise	45 - 55
Specific gravity		1.42 - 1.46
Appearance		Black.

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		5.35:1 pbw 4.6:1 pbv
Viscosity @ 25°C	poise	30 - 33
Specific gravity		1.39 - 1.43
Usable life 500 grams mass		15 mins at room temp.
Gel time at 25°C	500g	25min

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.

Email: aev@aev.co.uk
www.aev.co.uk

AEV PLC,
Marion Street, Birkenhead,
Wirral. U.K CH41 6LT
Tel: ++ 44 (0) 151 647 3322
Fax: ++ 44 (0) 151 647 3377



ULTIFIL 3000-050CJ

WORKSHOP PRACTICE

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

1. Remove outer wrapper - cut with scissors being careful not to pierce the inner pack.
2. Remove clip - unfold sachet, hold each side firmly along the top edge. Pull apart to release central plastic clip. Do not slide apart as this can puncture the pack.
3. Mix - mix the contents by using the fingers and thumbs. Ensure that the material in the corners and edges of the pack are well mixed in. The mixing process takes 3-5 mins. Care should be taken not to burst the pack by over enthusiastic mixing.
4. Cut off the corner - this will give a dispensing cone. The size of the cone determines the rate the material is dispensed.
5. Dispense material - gradually pouring the material to fill moulds from the bottom up reduces inclusion of air.

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	3 hrs	at room temp.
full	48 hrs	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.

Email: aev@aev.co.uk
www.aev.co.uk

AEV PLC,
Marion Street, Birkenhead,
Wirral. U.K CH41 6LT
Tel: ++ 44 (0) 151 647 3322
Fax: ++ 44 (0) 151 647 3377



TECHNICAL BULLETIN
TECHNICAL BULLETIN

ULTIFIL 3000-050CJ

PROPERTIES OF CURED COMPOUND

Shore D hardness	DIN 53505	70	
Tear strength		10	N/mm
Tensile strength	ISO527	12	N/mm
Elongation at break	ISO527	3%	
Thermal Conductivity	ISO 8894-1	0.9	W/M/K
Water absorption	24hours	10	mg
Maximum operating temperature		80	°C
Dielectric strength	IEC 243	100	kV/cm.
Volume resistivity Log10 ohm	IEC 93	>10	Ω/mm
Adhesion to	PVC	4	N/mm
	XLPE	2	N/mm
	Lead	10	N/mm
	Aluminium	11	N/mm
	Copper	11	N/mm

STORAGE

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

PACKAGING

Link Packs for Cable Kits
1kg, 3kg, 5kg

HEALTH & SAFETY

See relevant Material Safety Data Sheet.

AEV PLC Issue no.3 Date: 11.07

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.

Email: aev@aev.co.uk
www.aev.co.uk

AEV PLC,
Marion Street, Birkenhead,
Wirral. U.K CH41 6LT
Tel: ++ 44 (0) 151 647 3322
Fax: ++ 44 (0) 151 647 3377