

EL266D

A very low viscosity, flexible polyurethane system.

Application

- In-shore and off-shore cable jointing

Key Properties

- High adhesion
- Easy to use
- Excellent resistance to seawater
- Excellent electrical insulation characteristics

Description

- Basic Two-component polyurethane system
- Resin RL266D
- Hardener HL266D

Physical Data (approx. – values)	Colour	Specific Gravity	Viscosity (mPas) @ 25°C
Resin	Black White	109	2000-3000 2000-4000
Hardener	Brown Black	1.23	200-250
Composite	Black Grey	1.12	2000-2500 1000-1500

Cure Schedule (250g)	Working life	Gel time	Initial cure time	Full cure time
Temperature (°C)	(Minutes)	(Minutes)	(Hours)	(days)
10	30	100	24	33
25	25-30	60-80	12	2
30	15	35	6	1

*2mm cross sectional area **for maximum properties

Cure time will depend on cross sectional area, ambient conditions and mixing method. The above data is given as a guide only.

Hotter temperatures may be used for faster cure but will result in higher post cure shrinkage and higher cure exotherm.

Experimentation and testing is suggested to avoid side effects.

Processing

Mix ratio by weight 2.84:1

Mix ratio by volume 3.21:1

Approvals

RoHS compliant	Yes
UL94 V-0	No
REACH (SVHC concentration)	Refer to SDS

Typical Properties	Result	Unit
Hardness	70-90	Shore A
Operating Temperature	-55 to + 120	(application & geometry dependent)
Thermal Conductivity	< 0.3	W/mK
Tensile Strength	6	MPa
Elongation at Break	150	%
Glass transition temperature	-60	°C
Compressive Yield Strength	< 10	MPa
Coefficient of Linear Expansion	70 -90	ppm/°C
Peak exotherm (1000g @ 20°C)	<70	°C
Volume Resistivity	12 x14 ₁₀	ohm-cm
Surface Resistivity	13.5 x15.5 ₁₀	ohm
Electric Strength	25	kV/mm

Packaging

EL266D is available in Twinpacks & Kits

Availability

Available through sales@robnor.co.uk

Twinpacks - Part Numbers

EL266D/BK/1000	
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Twinpacks are pre-weighed resin and hardener components contained in a tough flexible film, separated by a removable clip and rail. Once the clip and rail has been removed the resin and hardener is thoroughly mixed within the bag and is immediately ready for use. Mixing will normally take ~ 2 minutes due to the viscosity; but pay special attention to the corners. Twinpacks are ideal for small to medium production runs, prototyping and on-site or field use. The twinpack weight/volume may also be tailored to a specific size on request.

For further details please visit www.robnor-resinlab.com

Bulk Materials - Part Numbers

Available on request	
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Both resin and hardener are supplied in 5kg, 25kg and 200ltr drums and fully evacuated and ready for use. Care should be taken to ensure when mixing the resins air is not entrained in the mixture. If this is unavoidable the mixed resin and hardener should be re-evacuated before dispensing. The bulk resin and hardener materials can be dispensed from suitable dispensing machinery, details provided by Fluid Research on request.

Kits and Sets Part Numbers

EL266D/BK/8KGKIT	
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	EL266D/GY/8KGKIT
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Kits and Sets are provided in separate containers to the correct ratio.

In Kit form, pour the contents of the smaller container into the larger container and use it as a mixing vessel.

Stir well using an appropriate mixer until homogeneous.

Note: Incomplete mixing will be characterised by erratic or partially incomplete cure even after extended time periods.

Cleaning

All equipment contaminated with mixed material should be cleaned before the material has hardened. TS130 is a suitable non-flammable cleaning agent, although other solvents may be found suitable. TS130 will also remove cured material provided it can soak for several hours.

Storage and Shelf Life

24 months at 25 °C - Specialty packaging may be less.

Bulk containers should be inverted every two to three weeks to reduce the accumulation of the fillers on the bottom of the containers.

Isocyanates are sensitive to moisture and should be kept in their original container or in a volume tank under dry nitrogen blanketing.

Many isocyanates are prone to dimerization, the formation of a white precipitate. Products with minor amounts of this precipitate normally cure to full properties.

Storage at 20 +/- 5 °C (60 °F to 86 °F) is recommended to ensure full shelf life.

Health and Safety

Please refer to RL/HL266D Health and Safety data or our Technical Service Department for individual/specific advice.

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The results and information above do not constitute a specification and are given in good faith and without warranty. The information is derived from test/or extrapolations believed to be reliable and are quoted for guidance only. The product is offered for evaluation on the understanding the customer satisfies himself that the product is suitable for the intended application by proper evaluation and testing.

Contact Details

Robnor Resinlab Limited
31 Athena Avenue
Elgin Industrial Estate
Swindon
SN2 8EJ
United Kingdom

Tel: +44 (0) 1793 823741
Fax: +44 (0) 1793 827033
Email: support@robnor.co.uk
Buy Online: www.robnor-resinlab.com (UK only)