

## Technical Data Sheet

### EuroCast 3038 Laminating Epoxy

#### 1. Introduction

EuroCast 3038 Part A epoxy resin reacts with EuroCast 3038 Part B to form a tough, rigid epoxy resin.

#### 2. Applications

EuroCast 3038 has been formulated for use as a laminating resin with chopped glass mat and rovings for subsea applications but also finds use in resin infusion and other similar application methods.

The low viscosity and long pot-life allow for thorough wetting and penetration of the reinforcing medium. The cured product shows excellent physical properties in particular a high level of toughness and impact resistance.

#### 3. Specification

Property	Minimum	Maximum	Units
Gel Time (100g @ 20°C no reinforcement)	2	4	Hours
Full Cure (100g @ 20°C no reinforcement)	4	5	Days
Hardness at full cure	80	90	Shore D

#### 4. Mix Ratios

By Weight: 2.00 Parts A to 1.00 Part B

By Volume: 1.74 Parts A to 1.00 Part B

The components should be measured to an accuracy of 2% or better. Care should be taking when measuring by volume, as this is an inherently inaccurate method unless specific volumetric measuring equipment is used.

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### 5. Typical Properties

Property (no reinforcement)		Typical Value	Units
Colour	Part A	Hazy white	-
	Part B	Brown	-
	Mixed	Pale Brown	-
S.G.	Part A	1.12	-
	Part B	0.96	-
	Mixed	1.15	-
Viscosity (Sp.28, 20RPM, 20°C)	Part A	550	mPas
	Part B	350	mPas
	Mixed	350	mPas
Gel Time (100g 20°C)		4	Hours
Full Cure (100g 20°C)		5	Days
Hardness at full cure (no reinforcement)		84	Shore D
HDT (NB: Depending on postcure regime, reinforcement type and loading)		110 - 140	°C
<b>Physical Properties:</b>			
	With 32% Chopped-Strand Mat	With 60% Woven Rovings	
Tensile Strength	128	473	MPa
Tensile Modulus	7,734	18,065	MPa
Flexural Strength	204	411	MPa
Flexural Modulus	6093	15,860	MPa
Elongation at Break	2.3	3.2	%

### 6. Preparation of Components

Part A must be thoroughly mixed prior to removal from the container.

Part B requires no preparation and may be used directly from the tin.

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### 7. Handling and Storage

The relevant Safety Data Sheets should be read carefully before using this material. Good housekeeping is important with this material as with all chemicals. Spillages should be wiped up immediately and containers wiped clean after use. The components should be stored in their original containers in a dry place at 5-25°C. Both components have a minimum shelf life of 12 months from the date of manufacture when stored correctly in unopened containers.

### 8. Health and Safety

The Safety Data Sheet provides information on the health and safety aspects of this material. Please contact Europol if you do not have a Safety Data Sheet for each of the components of this material.

The Part A epoxy resin component is classified according to the requirements of the CLP regulations as WARNING and the MSDS must be read prior to use of this material.

The Part B hardener is classified according to the requirements of the CLP regulations as DANGER and the MSDS must be read prior to use of this material.

### 9. Suitability for Use

The information in this datasheet is given to the best of our knowledge and belief but without warranty or liability.

The user must establish the suitability of the material for the intended application by carrying out any appropriate tests.

Finished products produced from any batch of our materials must be subjected to comprehensive standards of quality control by the user.

### 10. Additional Information

Please note that this product has not been tested for all applications and it is strongly recommended that customers carry out adequate trials to determine the suitability of this material for the intended use.

No liability will be accepted for direct or consequential losses arising from the use of this material.

However any comments or suggestions relating to improving the processing or characteristics of this material will be very welcome.