Elastothane
Polymer Coating Technologies

# ELASTOLINE CG POLYUREA HYBRID COATING

Elastoline CG is a 1:1, fast setting, spray applied two component UV stabilised hybrid polyurea coating. It is 100% solids and contains no VOC's. CG has been formulated as a protective coating for industrial applications, and is typically used to coat metal and wood such as automotive parts, speakers and flight cases. CG has been developed to protect substrates in the most hostile environments also making it ideal for marine based applications.

## PRODUCT FEATURES

| | |
|---|---|
| Hybrid Polyurea | Lower sensitivity to moisture during application. |
| Zero VOC's | 100% solids, no VOC's. |
| Film Properties | High degree of flexibility combined with tensile strength gives excellent durability and abrasion resistance. |
| Chemical Resistance | The cross-linked properties of CG give excellent resistance against a variety of chemicals such as acids, alkalis & fuels. |
| Impact Resistance | CG provides excellent impact resistance even in sub-freezing temperatures. |

## TECHNICAL DATA

| Criteria | CG Polyol | CG Iso |
|---|---|---|
| Viscosity at 23°C (mPa.s) | 800 ± 250 | 600 ± 250 |
| Density (g/ml) | 0.97 | 1.03 |
| Ratio by volume | 1:1 | |
| Gel time (seconds) | 5 | |
| Tack free time (seconds) | 10 | |
| Hardness, Shore D | 40-50 | |
| Tensile strength ($N/mm^2$) | 18 | |
| Elongation at break (%) | 500 | |
| Spray temperature (°C) | 70-75 | |
| Spray pressure (psi) | 2400 - 3000 | |
| Substrate temperature (°C) | +5°C to + 45°C | |
| Air temperature (°C) | +5°C to + 45°C | |

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## STORAGE

Stored in unopened original containers, CG Polyol will have a shelf life of one year.
Stored in unopened original containers, CG Polyol will have a shelf life of six months.
Store between +5°C to + 25°C.

## APPLICATION GUIDELINES

The application surface should be thoroughly cleaned to remove any loose material, dust or grease.

### Priming – Concrete

The use of 3558 Epoxy primer, blinded with sand, is recommended for use with this membrane

### Priming – Metal

The use of Isoprime blinded with sand, is recommended for use with this membrane

### Application Equipment

Using plural component, heated, high pressure, impinge mixing spray equipment at elevated temperature. It is recommended that the product is applied at temperatures of 60 - 75°C. Equipment used must be capable of maintaining a stable high pressure and consistent volume output during application.

### Application

CG is applied at a rate of 1.7-3kg/m². It is recommended that the product is applied at temperatures greater than 10°C. All substrates to be coated should have a surface temperature at least 3°C above dew point to reduce delamination risk due to Condensation.

### Curing

Product is tack free in 20 seconds. If overcoated, this should be done no more than 25 minutes after the first coat.

### Quality Control

For specific information on using this product please consult our method statement. A test spray should be carried out prior to installing the product to ensure ratio and machine settings are correct.

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## LIMITATIONS

Elastoline GC is an aromatic hybrid polyurea, and as such, colour change will occur with UV exposure; this does not affect the physical properties. It is recommended to use darker colours for any application requiring colour stability.

## HEALTH & SAFETY

Before use, ensure that you have read the relevant Health and Safety Data Sheet for this Product.

The Company will supply, upon request, individual advice in writing in connection with the use and application of its products in all appropriate cases. Customers are urged to make use of this service. This leaflet is provided for general guidance only. All recommendations and suggestions are made in good faith but without guarantee and are subject to the Company's terms and conditions.


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