Product Data Sheet

Cromadex Liquid Coatings
Cromadex 700 Topcoat
Two Pack Epoxy Topcoat

Product Description

Cromadex 700 is a two pack epoxy topcoat with excellent chemical resistance, allowing it to be used in more aggressive environments.

The product can be air dried or stoved enabling flexibility in production.

Cromadex 700 is available in the full Cromadex range of colours and gloss levels, including BS, RAL, metallic, sparkles and special matches all in a lead free finish.

In common with all epoxies, Cromadex 700 will chalk and discolour on exterior exposure. However, this will have no adverse effect on anti-corrosion properties.

Extra Life

Life expectancy of up to 15 years in a C2* environment when used with a suitable Cromadex primer. See Extra Life brochure for full details.

* as determined in ISO12944: 2018

Products and Ancillaries

700 Topcoat
700 Curing Agent
No 1 Thinner

Suitable Substrates and Preparation

Sheet Steel	Degrease with Cromadex 678 Spirit Wipe and abrade steel with P180. If necessary blast clean to remove millscale, minimum surface preparation SA2. Apply suitable Cromadex primer
Aluminium & Galvanised Steel	Apply Cromadex 903 Chromate-Free Etch Primer (then other Cromadex primer is required to increase film build)
Stainless Steel	Use of Cromadex 903, AQ58, 750 or 850 primer is required
GRP	Remove release coat, degrease and abrade with P280
Powder Coating	Degrease and abrade with P280

Application Details

Mixing Ratio	Full Gloss 2 parts 700 Topcoat 1 part 700 Curing Agent 1-2 parts No 1 Thinner	Semi Gloss/Eggshell/Matt 5 parts 700 Topcoat 2 parts 700 Curing Agent 1-2 parts No 1 Thinner
	Dependent on application equipment	
	Note: products should be mixed 10 minutes prior to application	
Spraying Viscosity	45 – 70 seconds ISO Cup4 @ 20°C 25 – 30 seconds BS Cup4 @ 20°C	
Pot Life	8 hours @ 20°C (dependent on colour)	
Approved Thickness	30 – 35 microns DFT	55 – 65 microns WFT

Application Details

Spray Gun	Fluid tip size	Working pressure
Conventional	1.4 – 1.8 mm	3.5 – 4.2 bar
Suction Feed HVLP	1.4 – 1.8 mm	0.7 bar (max)
Pressure Pot HVLP	1.0 – 1.4 mm	0.7 bar (max)
Electrostatic	Ready for use	

Cromadex 700 Topcoat

Drying and Overcoating

Substrate Temperature	Drying Times: Touch Dry	Drying Times: Through Dry	Overcoating Times: Minimum	Overcoating Times: Maximum
20°C	1 hour	12 hours	2 hours	7 days
35°C	45 mins	9 hours	1 hour	7 days

Force Drying Flash-off for 10-15 mins, then 60-80°C for 30 mins

Stoving Flash-off for 10-15 mins, then 120°C for 30 mins
Note: This product may yellow if stoved in a gas fired oven

Full Properties 7 days if air dried @ 20°C or immediately after stoving
Note: when fully cured, topcoat will need abrading with P240 – P320 prior to subsequent overcoating

Storage and Handling

Storage Storage should be in accordance with the instructions in Section 7 of the relevant material safety data sheet

Shelf Life 12 months in an unopened, original container from date of mixing at Cromadex centre

Pack Size 5 & 20 litres

Physical Properties

Volume Solids 54 % mixed, dependent on colour and gloss

Colour Full range available including BS, RAL, metallics, sparkles and special matches – all lead chromate free

Gloss Full gloss (90% min) Semi gloss (60%)
Eggshell (30%) Matt (10%)
Plus intermediates on request
Measured at 30-35 microns DFT & 60º reflectance
A variance of +/-5% may be obtained dependent on application process

Coverage 16 m^2/l @ 30 microns, assuming 100% transfer efficiency

	VOC	Specific Gravity
700 Topcoat	386 g/l (dependent on colour & gloss)	1.23 (dependent on colour & gloss)
700 Curing Agent	449 g/l	0.92
No 1 Thinner	868 g/l	0.87

Safety Precautions and Disclaimer

Before using this product please refer to the Cromadex Material Safety Data Sheet.
The information contained in this data sheet is not intended to be exhaustive, and any person using the product without first obtaining written confirmation from us as to the suitability of the product for the intended purposes, does so at their own risk. Whilst we endeavour to ensure that all advice we give about the product (whether in this sheet or otherwise) is correct, we have no control over either the quality or condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree to do so, we do not accept any liability whatsoever arising from the performance of the product or for any loss or damage (other than death or personal injury resulting from our negligence) arising out of the use of this product. The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.

It is the user's responsibility to check that this data sheet is current prior to using the product.