

# Product Data Sheet

## Cromadex Liquid Coatings Cromadex AQ60 Topcoat Two Pack Waterbased Polyurethane Topcoat

### Product Description

Cromadex AQ60 is a two pack water based polyurethane topcoat with excellent exterior durability and chemical resistance. The product exhibits excellent colour and gloss retention adding value to the finished article.

Cromadex AQ60 is available in the full Cromadex range of colours and gloss levels, including BS, RAL and special matches all in a lead free finish.

### Extra Life

Life expectancy of up to 15 years in a C3\* external environment when used with a suitable Cromadex primer. See Extra Life brochure for full details.

\* as determined in ISO12944

### Products and Ancillaries

AQ60 Topcoat	AQ Equipment Cleaner (CX1A01)
AQ60 Curing Agent	AQ Conversion Cleaner (CG1A01)

### Suitable Substrates and Preparation

<b>Steel</b>	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
<b>Aluminium &amp; Galvanised Steel</b>	Degrease with Cromadex 678 Spirit Wipe and abrade with P240 to remove surface oxide layer. Apply Cromadex 903 Chromate-Free Etch Primer (then other Cromadex primer is required to increase film build)
<b>Stainless Steel</b>	Use of Cromadex 903, AQ58, 750 or 850 primer is required
<b>GRP</b>	Remove release coat, degrease and abrade with P280
<b>Powder Coating</b>	Degrease and abrade with P280
<b>Plastics</b>	Direct adhesion to ABS, Noryl & PU Foam (Rigid), for HIPS, Acrylic, Polycarbonate, PVC and PU Foam (flexible) consult your local Cromadex centre for appropriate primer. Clean with a suitable anti-static cleaner prior to coating

### Application Details

<b>Mixing Ratio</b>	5 parts AQ60 Topcoat 1 part AQ60 Curing Agent Approx 5-10% with water (dependent on application equipment) <b>Note:</b> AQ60 clear lacquer mixing ratio is 3:1 (base:curing agent) Once mixed, do not reseal containers. Danger of pressure buildup!	
<b>Spraying Viscosity</b>	45 – 70 seconds ISO Cup4 @ 20°C 25 – 30 seconds BS Cup4 @ 20°C 19 – 23 seconds DIN 4 Cup @ 20°C	
<b>Pot Life</b>	3 hours @ 20°C (dependent on colour & gloss)	
<b>Approved Thickness</b>	30 – 35 microns DFT	75 – 90 microns WFT
<b>Spray Gun</b>	<b>Fluid tip size</b>	<b>Working pressure</b>
<i>Conventional</i>	1.4 – 1.8 mm	3.5 – 4.2 bar (50-60 psi)
<i>Suction Feed HVLP</i>	1.4 – 1.8 mm	0.7 bar (max) (10 psi)
<i>Pressure Pot HVLP</i>	1.0 – 1.4 mm	0.7 bar (max) (10 psi)
<i>Airless</i>	9 – 11 thou	120-140 bar (1800-2000 psi)
<i>Air Assisted Airless</i>	9 – 11 thou	100-120 bar (1500-1800 psi) 1 bar (15 psi) air
<b>Brush/Roller</b>	Recommended	
<b>Electrostatic</b>	Automatic – Recommended Manual – Possible, contact equipment supplier for detailed information	

## Cromadex AQ60 Topcoat

Drying and Overcoating	Substrate Temperature	Drying Times		Overcoating Times	
		Touch Dry	Through Dry	Minimum	Maximum
	20°C	5 hours	6 hours	n/a	Indefinite
	Note: Recoating without reaction can only be carried out when the surface is sufficiently cured. Times shown assume good air movement, acceptable humidity and at the recommended film thickness. If not overcoated within 14 days then abrade with either P240 or P320 and clean with Cromadex 678 Spirit Wipe.				
	<b>Force Drying</b>	Flash-off for 20-30 mins, then 60-80°C for 30 mins			
	<b>Full Properties</b>	7 days @ 20°C			
Storage and Handling	<b>Storage</b>	Storage should be in accordance with the instructions in Section 7 of the relevant material safety data sheet			
	<b>Shelf Life</b>	6 months in an unopened, original container from date of mixing at Cromadex centre			
	<b>Pack Size</b>	5 & 20 litres			
Physical Properties	<b>Volume Solids</b>	40 % dependent on colour and gloss			
	<b>Colour</b>	Full range available including BS, RAL and special matches – all lead chromate free			
	<b>Gloss</b>	Full gloss (90% min) Eggshell (30%)		Semi gloss (60%) Matt (10%)	
	<b>Coverage</b>	14 m <sup>2</sup> /l @ 30 microns, assuming 100% transfer efficiency			
		<b>VOC</b>			<b>Specific Gravity</b>
	<b>AQ60 Topcoat</b>	122 g/l (water removed)	(dependent on colour & gloss)		1.17 (dependent on colour & gloss)
	<b>AQ60 Curing Agent</b>	311 g/l (water removed)			1.02
<b>CX1A01</b>	932 g/l			1.00	
<b>CG1A01</b>	880 g/l			0.88	
Safety Precautions and Disclaimer	<p><b>Before using this product please refer to the Cromadex Material Safety Data Sheet.</b></p> <p>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.</p> <p>It is the user's responsibility to check that this data sheet is current prior to using the product.</p>				