



## EPC 7460A Clear coating for Stainless Steel and Anodised and bare aluminium

### Product description

EPC7460A is a crystal clear one part air cured coating. It is a self-levelling easy to apply product, leaving a seamless surface.

It has excellent chemical, abrasion and impact resistance above rating H7 on the scratch resistance pencil scale using the ASTM method D3363-05. Note: As comparison granite measures H6.

EPC7460A Contains silver ion anti-microbial technology making it resistant to bacterial growth

The coating is extremely thin measuring only 3 to 5 microns making it virtually invisible to the naked eye.

The coating will remain flexible enabling it to move with the constant expansion and contraction of the substrate when heating and cooling. It has passed the ASTM method test D2794 for flexibility and impact at 80lbs and a ½ inch mandrel bend test.

EPC7460A is applied directly in a single coat and is usually touch dry within 20 minutes in ambient temperatures.

Dry film thickness is usually 3 to 5 microns

The Technical Data Sheet (TDS) is recommended to be read in conjunction with the Safety Data Sheet (SDS) and the Application Guide (AG) for this product.

EPC7460A is only available from BROMOCO International Ltd. UK

The product can be applied by Brush, Lint free cloth, HVLP Spray with standard jet, High density foam roller / block or dipped.

Roller: To avoid air bubbles, it is very important to soak the roller then squeeze out excess then roll on a cardboard sheet to test.

Conditions during application: The temperature of the substrate should be minimum 10 °C and at least 3 °C above the dew point of the air, measured in the vicinity of the substrate. Good ventilation is usually required in confined areas to ensure proper drying. There should be no moisture content on the surface. The coating should not be exposed to oil, chemicals or mechanical stress until fully cured. This product should not be applied on to the surfaces that contain soft plastics (Lettering or signage).

To secure lasting adhesion to the subsequent product all surfaces should be washed down with ERW-BD Bio-degradable rinse free degreaser or isopropyl alcohol.



07/07/2016

**ASTM Method Test results**      07/07/2016

	Type	Method	Units	Result	Rating	
<b>Impact Resistance</b>	<b>Flexibility</b>	D2794	1/2"	Mandrel bend test		
	<b>Impact</b>		Passed	Direct & Reverse	Passed	
	<b>Impact</b>		80 lb	No peeling, No lifting	Passed	
	<b>Film Pencil Test</b>	D3363-05	Gouge Cut	6.3H 7.2H	7.5H 8.4H	
<b>Salt Fog Test</b>		B117	1000 hrs Aluminium <1% white rust Stainless Steel, No effect		Rated 10 Rated 10	
<b>Humidity Resistance</b>		D1794	1000 hrs @ 38°C		Rated 10	
<b>Weather Exposure</b>		D552	100 hrs cyclic at 120 min light 18 min diminished	No checking No crazing No adhesion loss	Passed Passed Passed	
	<b>Chemical Resistance</b>	D1308	Procedure 5.2	15 minute spot test with 10% muriatic Discolouration Blistering	Passed	
					No effect	
No effect						
					Acid with 10% sodium Hydroxide	Passed
				24 hour immersion		Passed
						Passed
				24 hour recovery period		2% soap solution 3 types
	Adhesion Gloss	No effect No effect				
<b>Temperature Resistance</b>			Heat to Gas Off	660° F / 349° C		



## EPC7460A Instructions

### 1. Deep Cleaning (required for contaminated Stainless Steel)

Apply **ERW-XL** to structure with a brush. Agitate to create foam ensuring entire area is covered paying attention to hard to reach areas and fixings. Allow to dwell for 20 minutes.

Dampen brush with more solution and re-agitate solution. Allow to dwell for a further 15 minutes if required. For heavily corroded areas, a mild abrasive cloth may be used in the same direction of the brush on the metal.

***Do not allow to dry on surface.***

Rinse down thoroughly with clear water, using a brush to aid rinsing. If any staining or corrosion remains, then repeat process to affected areas.

***\*Important\****

Rinse all areas by hand using the microfiber cloth provided to remove all trace of ERW-XL. The solution must be fully removed; failure to do so may result in browning beneath the coating.

### 2. Surface Preparation.

Dilute 50ml to 1 bucket of water. Neutralise the area with ERW-BD using the microfiber cloth and rinse with fresh water. This will balance the PH. Allow to dry.

### 3. Application of Coating

Pour the EPC7460A coating into a metal kettle or pail. Soak the lint free applicator cloth into the coating until saturated. Wring out the cloth to expel excess coating. Wipe the coating onto the surface. Do not use a scrubbing action. Pay particular attention to screws, fixing and joints. Allow 20 to 60 minutes to dry, depending on temperatures. Do not attempt to go over areas you feel you may have missed during the drying period, they will be covered on the next coat if required. If possible, leave first coat on for 24 hours before a second coat is applied.

Apply the second coat using the lint free applicator cloth. Ensure there is plenty of coating on the cloth. If the cloth runs dry, you will risk tearing the first coat. If tearing of the first coating occurs, simply apply more coating to affected area. The coating usually dries in 20 to 60 minutes, depending on air temperature and will be fully cured in 24 hours.



## How to Care for your structures protected with EPC7460A

Structures protected with EPC7460A can be maintained easily and kept up indefinitely.

EPC7460A coating will expand and contract with the metal and will provide extreme protection against corrosion, oxidation, tarnish, rust, acid rain, chalking and much more. However, the surface should be protected from solvents and harsh abrasive cleaners.

The surface protected with EPC7460A should be cleaned every 6 weeks to remove surface dirt and salt crystals. Only rinse clean with fresh water, preferably "pure water" and a soft cloth or mop. A solution of mild soap and water can be used if the surface is noticeably dirty. Be sure to rinse the soap off with plenty of clean water. Washing up liquid or similar cleaners can be used as long as they do not contain petroleum distillates.

EPC7460A will protect the frames from bleaches, acids, bird droppings and other corrosives. When washed the surface should be dried with a soft cloth unless pure water is used. Dirt and dust may settle on the protected surface but will not penetrate the clear finish and can easily be removed. The protected metal will repel water and should bead up when wet. Do not rinse off in the direct sun, especially if you have hard water or you may get water spots. If some tougher dirt or bird "deposits" get on the surface, you may need to use a soft brush with water. Power washing should never be necessary.

**What to avoid:** There are cleaners which contain solvents or petroleum distillates that should not be used on the protected surface. Watch out for "orange" cleaners that usually contain solvents.

**Do not use any form of abrasives:** There is no reason to scrub the coated surface with scratchy cleansers like Cif or with scratch pads. If the coating does get scratched, it can easily be touched up. If you have any further questions, please contact us, we will be happy to help.

### Repairing damaged areas

If damage is caused by external force, abrasion or solvent application then repair is necessary

Because of the self-annealing and self-levelling properties of EPC 7460A it is possible to effectively repair isolated damaged areas. Simply clean off any dirt or debris and clean with ERW-BD, rinse with fresh water and allow to dry. Apply additional coating on and around damages are. Allow coating to dry.