

Product Data Sheet

Cromadex Liquid Coatings Passivating Wash (MC245)

Product Description

A phosphoric acid based mordant solution for treating galvanized steel prior to application of coating systems, in order to ensure good adhesion where blasting or abrasion is not possible.

Product Characteristics

Passivating Wash is only recommended for the etching of galvanised surfaces. It is not suitable for the pretreatment of other non ferrous metals such as aluminium.

This product contains phosphoric acid, before commencing application reference should be made to the material safety data sheet and the appropriate personal protective equipment should be worn, e.g. gloves, goggles, face mask etc.

Apply to a suitable cleaned galvanised surface and then allow to dry. The mordant solution will gradually react and the blue colour will change with the surface blackening. This should finally achieve a uniform dark grey colour. If this does not occur due to the presence of oils, grease, flux or passivation of the surface then this area will require abrasion and a second coat of Passivating Wash.

Over application will produce a dense black powdery layer which is not suitable for the application of subsequent topcoats. This will require either abrading or washing with fresh water to remove the excess acid or powdery deposits, otherwise blistering and /or adhesion loss of topcoat can occur.

Products and Ancillaries

Passivating Wash
Clean water

Suitable Substrates and Preparation

Galvanised Steel

All surfaces to be coated should be clean, dry and free from contamination. Prior to paint application all surfaces should be assessed and treated in accordance with ISO 8504:2000.

Oil or grease should be removed using 678 spirit wipe.

Preferred method of treatment for application of protective coating system is to sweep blast in order to provide a physical key to the substrate following degreasing and cleaning with spirit wipe, alternatively, the substrate should be abraded to remove areas of passivated zinc products.

The surface should be washed to remove any traces of soluble zinc salts and allowed to dry before application of Passivating Wash.

The passivated surface should be rinsed with fresh water and allowed to dry thoroughly before coating commences.

Application Details

Mixing Ratio

The material is supplied ready for use and should be mixed thoroughly before use

Thinning is not normally required, however if application trials result in dense black powdery surface, then MC245 should be diluted with clean water and further application trials undertaken

Spraying

Not suitable

Brush

Recommended. Aim to apply at a rate of 20m²/lt

Roller

Suitable

Passivating Wash

Drying Times

Substrate Temperature	Overcoating Times	
	Minimum	Maximum
10°C	2 hours	2 days
15°C	2 hours	2 days
25°C	2 hours	2 days
40°C	30 minutes	2 days

Over coating with suitable primer is recommended as soon as Passivating Wash has been rinses and dried.

Touch dry and hard dry times are not applicable for Passivating Wash

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 litres

Additional Data

Colour	Pale blue
Flash Point	33°C
Practical Coverage	20 m ² /l
Specific Gravity	1.00
VOC	330 g/l (dependent on colour & gloss)

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.
