

MACROPOXY[™] C402V2 EPOXY ZINC PHOSPHATE

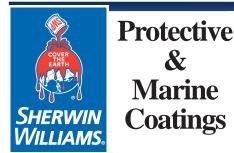
FORMERLY KNOWN AS EPIGRIP C402V2

Revised 02/2016 Issue 12

PRODUCT INFORMATION

P RODUCT D ESCRIPTION		TYPICAL THICKNESS				
A high build 2-pack epoxy zinc phosphate primer/buildcoat.		Dry film		Wet film		retical
Re	COMMENDED USE	thicknes 100 micro		thickness 133 microns		erage n²/ltr*
Anti-corrosive protection of carbon steel surfaces prepared by abrasive blast cleaning. May be brush applied onto hand or mechanically prepared		* This figure makes no allowance for surface profile, uneven application, overspray or losses in containers and equipment. Film thickness will vary depending on actual				
surfaces and/or damp gingered surfaces, giving excellent wetting and adhesion characteristics - see notes overleaf.		use and specification. PRACTICAL APPLICATION RATES -				
Can be applied at thicknesses between 75 and 250 microns dry to provide both primer and buildcoat in a single coat. A top coat is only required for decorative purposes.		MICRONS PER COAT				
			irless Spray	Conventional Spray	Brush	Rolle
Without topcoat, the	material will quickly discolour and	Dry	100*	100	75	65
patchiness may be exaggerated due to film thickness variation, but will nonetheless provide excellent anti-corrosive protection as a single coat protective epoxy nor will intercoat adhesion be affected by any discolouration. See reverse side for further information on colour stability.				133 with overlap typicall		87 400µm dry
		by airless spray and 187μm wet (140μm dry) by brush. Average Drying Times				
For use in internal/exte offshore, petrochemica applications.	ernal exposed conditions, including al, but not for fully immersed	To touch: To recoat:	2 ho	5°C @ 23°C ours 1½ hours ours 4 hours	@ 35°C 1 hour 3 hours	
Endorsements					5 110015	
L	Endorsements	To handle:	16 h	ours 8 hours	5 hours	
Network Rail Item No	ENDORSEMENTS . 7.1.5 (Aluminium only), 7.1.7, 7.2.2	To handle:	16 h		5 hours	such as a ered.
Network Rail Item No (other shades)	. 7.1.5 (Aluminium only), 7.1.7, 7.2.2	To handle:	16 h are gi ent and	ours 8 hours	5 hours ly. Factors s so be consid	such as a ered.
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PRODUCT INFORMATION

SURFACE PREPARATION

Blast clean to Sa21/2 (ISO 8501-1:2007). Average surface profile in the range 50-75 microns.

Manually prepared surfaces should be prepared to a minimum standard of St3 ISO 8501-1:2007 at the time of coating.

Application to such surfaces should be by brush or roller where the mechanical action will aid adhesion.

Ensure surfaces to be coated are clean, dry and free from all surface contamination.

APPLICATION EQUIPMENT

Airless Spray	For dft applications between 75-125µ	For dft applications between 125-250µ
Nozzle Size:	0.33mm (13 thou)	0.38mm (15 thou)
Fan Angle:	40°	40°
Operating Pressure:	155kg/cm ²	155kg/cm ²
Operating r ressure.	(2200 psi)	(2200psi)

The airless spray details given above are intended as a guide only. Details such as fluid hose length and diameter, paint temperature and job shape and size all have an effect on the spray tip and operating pressure chosen. However, the operating pressure should be the lowest possible consistent with satisfactory atomisation. As conditions will vary from job to job, it is the applicators' responsibility to ensure that the equipment in use has been set up to give the best results. If in doubt Sherwin-Williams should be consulted.

Conventional Spray Nozzle Size Atomising Pressure: Fluid Pressure

1.27mm (50 thou) 2.8kg/cm² (40 psi) 0.4kg/cm² (6 psi)

The details of atomising pressure, fluid pressure and nozzle size are given as a guide. It may be found that slight variations of pressure will provide optimum atomisation in some circumstances according to the set up in use. Atomising air pressure depends on the air cap in use and the fluid pressure depends on the length of line and direction of feed i.e. horizontal

or vertical. For application by conventional spray, it may be necessary to thin the paint by the addition of up to 10% Cleanser Thinner No. 5. Where thinning has been carried out the wet film thickness must be adjusted accordingly.

N.B. Thinning will affect VOC compliance.

Brush and Roller: The material is suitable for brush and roller application. Application of more than one coat may be necessary to give equivalent dry film thickness to a single spray applied coat.

Application Conditions and Overcoating

Epoxy paints should preferably be applied at temperatures in excess of 10°C. Relative humidity should not exceed 90% and in these conditions good ventilation is essential. Substrate temperature shall be at least 3°C above the dew

Substrate temperature shall be at least 3°C above the dew point and always above 0°C. At application temperatures below 10°C, drying and curing times will be significantly extended, and spraying characteristics may be impaired. Application at ambient air temperatures below 5°C is not recommended. In order to achieve optimum water and chemical resistance, temperature needs to be maintained above 10°C during

curing.

If it is desired to overcoat outside the times stated on the data sheet, please seek advice of Sherwin-Williams.

ADDITIONAL NOTES

Drying times, curing times and pot life should be considered as a guide only.

The curing reaction of epoxies commences immediately the two components are mixed, and since the reaction is dependent on temperature, the curing time and pot life will be approximately halved by a 10°C increase in temperature and doubled by a 10°C decrease in temperature. It is possible to apply Macropoxy C402V2 onto a damp substrate (no running water or pooled water) by brush application. Ensure that the paint fully displaces any water on the surface

the surface.

Epoxy Coatings - Colour Stability: Variable colour stability is a feature of epoxy materials which tend to yellow and darken with age particularly when used on internal areas. Therefore any areas touched-up and repaired with the same colour at a later date may be obvious due to this colour change.

change. When epoxy materials are exposed to ultra-violet light a surface chalking effect will develop. This phenomenon results in loss of gloss and a fine powder coating at the surface which may give rise to colour variation depending on the aspect of the steelwork. This effect in no way detracts from the performance of the system. **Epoxy Coatings - Tropical Use:** Epoxy paints at the time of mixing should not exceed a temperature of 35°C. At this temperature the pot life will be approximately halved. Use of these products outside of the pot life may result in inferior adhesion properties even if the materials appear fit for application. Thinning the mixed product will not alleviate this problem.

application. Thinning the mixed product will not alleviate this problem. The maximum air and substrate temperature for application is 50°C providing conditions allow satisfactory application and film formation. If the air and substrate temperatures exceed 50°C and epoxy coatings are applied under these conditions, paint film defects such as dry spray, bubbling and pinholing etc. can occur within the coating. Numerical values quoted for physical data may vary slightly from batch to batch

from batch to batch.

HEALTH AND SAFETY

Consult Product Health and Safety Data Sheet for information on safe storage, handling and application of this product.

WARRANTY

Any person or company using the product without first making further enquiries as to the suitability of the product for the intended purpose does so at their own risk, and Sherwin-Williams can accept no liability for the performance of the product, or for any loss or damage arising out of such use.

The information detailed in this Data Sheet is liable to modification from time to time in the light of experience and of normal product development, and before using, customers are advised to check with Sherwin-Williams, quoting the reference number, to ensure that they possess the latest issue.

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