

ZINC CLAD™ 4700 EPOXY ZINC PRIMER

Revised 03/2019 Issue 1

PRODUCT INFORMATION

PRODUCT DESCRIPTION

A 2-pack epoxy zinc primer which complies to the compositional requirements of SSPC Paint 20 Level 3.

Recommended Uses

Anti-corrosive protection of steel surfaces prepared by abrasive blast cleaning, suitable for use in environments up to C5H as part of a system.

Recommended Application Methods

Airless Spray

Brush (for small areas and touch up only)

Thinner / Clean Up: Cleanser/Thinner No. 5

Flash Point:	Base: 24°C/75°F	Additive: 24°C/75°F
Color:	Grey	
Volume Solids:	61 ± 3% ASTM-D2697-03(2014)	

VOC:

311 gms/litre determined practically in accordance with UK **Regulations PG6/23**

379 gms/litre calculated from formulation to satisfy EC Solvent **Emissions Directive**

159 gms/kilo content by weight from formulation, to satisfy EC Solvent Emissions Directive

Mix Ratio:	4 parts base to 1 part additive by volume
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Recommended Thickness		
	Minimum	
Dry microns (mils)	60 (2.5)	
Wet microns (mils)	98 (4)	
Theoretical Coverage m ² /L (sq ft/gal)	10.16 * (400)	

* This figure makes no allowance for surface profile, uneven application, overspray or losses in containers and equipment. Film thickness will vary depending on actual use and specification.

			(MILS)		
Dry: Wet:	Airless S 60* (98 (4	2.5)			
* Maximum sag tolerance typically 164µm wet (100µm) (4.0 mils) dry by airless spray.					
	Averad	GE DRYING T	IMES		
	<u>@ 98 n</u>	nicrons (4 n	nils <u>) wet:</u>		
	@ 5°C/41°F	@ 15°C/59°F	@ 23°C/74°F	@ 35°C/95°	
To touch:	25 mins	25 mins	20 mins	15 mins	
To handle:	16 hours	14 hours	12 hours	10 hour	
To recoat	6 hours	5 hours	4 hours	3 hour	
For overcoat Drying time	ing information is temperatur	n, refer to Reco e, humidity, and	mmended Topo d film thickness	coats section dependent.	
Pot Life:		10 hours	8 hours	4 hours	
	A PPLIC	ATION EQUIP	MENT		
be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compliant with existing VOC regulations and compatible with the existing environmental and application conditions.					
Airless Spray: Nozzle Size:0.38mm (15 thou) Fan Angle:20-30° Operating Pressure:115kg/cm² (1600 psi)					
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.					
PACKAGE					
Shelf Life:		nonths from c By' date whe		facture or	
Recommended Topcoat					

a non-saponifiable resin based barrier coat has been

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applied first.

This Data Sheet is specifically subject to the disclaimer which can be found at http://protectiveemea.sherwin-williams.com/Home/Disclaimer"



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Additional Notes	SURFACE PREPARATION		
Drying times, curing times and pot life should be considered as a guide only.	Blast clean to Sa2 ¹ / ₂ BS EN ISO 8501-1:2007 (SSPC-SP10/ NACE2) Average surface profile in the range 50 - 75 microns (2.3 mills).		
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/50°F increase in temperature and doubled by a	Ensure surfaces to be coated are clean, dry and free from all surface contamination.		
10°C/50°F decrease in temperature. Exposure to Weathering If Zinc Clad 4700 is exposed to the weather, there is a risk of the formation of zinc salts on the surface, which must be removed	For repair of galvanizing, for small areas, abrade the surface to a minimum standard of St3 BS EN ISO 8501-1:2007 (SSPC-SP3) feathering off the edges of intact galvanizing surrounding such areas, and then brush apply the primer. For large areas it is recommended that the surface is flash blasted.		
by flash blasting or washing down prior to overcoating, otherwise intercoat adhesion may be adversely affected.	APPLICATION CONDITIONS		
The rate of zinc salt formation will vary from one location to another. Under severe conditions e.g. marine coastal, offshore or heavy industrial areas, it is strongly recommended that overcoating takes place within 7 days.	Epoxy paints should preferably be applied at temperatures in excess of 10°C/50°F. In conditions of high relative humidity, ie 80-85% good ventilation conditions are essential. Substrate temperature shall be at least 3°C/37°F above the dew point and always above 0°C/32°F.		
Epoxy Coatings - Tropical Use Epoxy paints at the time of mixing should not exceed a temperature of 35°C/95°F. At this temperature the pot life will be approximately	At application temperatures below 10°C/50°F, drying and curing times will be significantly extended, and spraying characteristics may be impaired.		
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 at ambient air temperatures below 5°C/41°F is not recommended.		
The maximum air and substrate temperature for application is	O RDERING INFORMATION		
50°C/122°F providing conditions allow satisfactory application and film formation. If the air and substrate temperatures exceed 50°C/122°F and epoxy coatings are applied under these conditions, paint film defects such as dry spray, bubbling and pinholing etc.	Packaging: A two component material supplied in separate containers to be mixed prior to use.		
can occur within the coating.	Pack Size: 10 litre (2.6 gal) and 5 litre (1.3 gal) units when mixed		
Numerical values quoted for physical data may vary slightly from batch to batch.	Weight: 2.24 kg/litre (18.69 lb/gal)		
CLEAN UP INSTRUCTIONS	Health & Safety		
Clean spills and spatters immediately with Thinner No.5. Clean tools	Consult Product Health and Safety Data Sheet for information on safe storage, handling and application of this product.		
immediately after use with Thinner No.5. Follow manufacturer's safety recommendations when using any solvent.	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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