

Epoxy

PRODUCT DESCRIPTION

A low VOC, two component, high build, high solids epoxy primer for concrete.

INTENDED USES

Polibrid 670S is designed for use as a concrete sealer for Polibrid schemes, where non-dusting and/or mild chemical resistance is required.

PRACTICAL INFORMATION FOR POLIBRID 670S

Color	A limited range of colors
Gloss Level	Semi-gloss
Volume Solids	82% ± 3%
Typical Thickness	4-10 mils (100-250 microns) dry equivalent to 4.9-12.2 mils (122-305 microns) wet
Theoretical Coverage	263 sq.ft/US gallon at 5 mils d.f.t and stated volume solids 6.56 m ² /liter at 125 microns d.f.t and stated volume solids
Practical Coverage	Allow appropriate loss factors
Method of Application	Airless Spray, Air Spray, Brush, Roller
Drying Time	

Temperature	Touch Dry	Hard Dry	Overcoating Interval with recommended topcoats	
			Minimum	Maximum
50°F (10°C)	4 hours	10 hours	10 hours	20 hours
77°F (25°C)	2 hours	6 hours	6 hours	20 hours
104°F (40°C)	60 minutes	3 hours	3 hours	20 hours

REGULATORY DATA

Flash Point (Typical)	Part A 97°F (36°C); Part B 133°F (56°C); Mixed 91°F (33°C)		
Product Weight	13.4 lb/gal (1.6 kg/l)		
VOC	1.59 lb/gal (191 g/l)	EPA Method 24	

See Product Characteristics section for further details

Protective Coatings

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SURFACE PREPARATION

Concrete Substrates

Concrete should be well cured prior to priming with Polibrid 670S. The concrete surface should be cured for a minimum of 28 days, dry and pass the plastic sheet test (ASTM D4263). All surfaces should be clean, dry and free from curing compounds, release agents, troweling compounds, surface hardeners, efflorescence, grease, oil, dirt, old coatings and loose or disintegrating concrete. All concrete surfaces must also be abrasive blast cleaned to provide a roughened surface and remove laitance. Surface profile should be as per ICRI Standard (VIS 6) - exposed aggregate. Any air pockets, voids ('bug holes') or irregularities should be filled before proceeding with the coating system. An acceptable method for rectification of irregularities is through the use of Ceilcote 680 Primer mixed with S-1 Powder as a patching compound. The surface tensile strength (ASTM 4541) as prepared should be at least 300 psi (2MPa). Refer to the Concrete Surface Preparation Guidelines for more information.

APPLICATION

Mixing	Material is supplied in two containers as a unit. Always mix a complete unit in the proportions supplied. Once the unit has been mixed, it must be used within the working pot life specified.		
	(1)	Agitate Base (Part A) with a power agitator.	
	(2)	Combine entire contents of Curing Agent (Part B) with Base (Part A) and mix thoroughly with power agitator.	
Mix Ratio	5.67 part(s) : 1 part(s) by volume		
Working Pot Life	50°F (10°C) 50 minutes	77°F (25°C) 50 minutes	104°F (40°C) 20 minutes
Airless Spray	Recommended	Tip Range 18-23 thou (0.45-0.58 mm) Total output fluid pressure at spray tip not less than 2503 psi (176 kg/cm ²)	
Air Spray (Pressure Pot)	Recommended	Gun Air Cap Fluid Tip	DeVilbiss MBC or JGA 704 or 765 E
Brush	Recommended	Typically 4.0-5.0 mils (100-125 microns) can be achieved	
Roller	Recommended	Typically 3.0-4.0 mils (75-100 microns) can be achieved	
Thinner	DO NOT THIN	Thinning is not normally required. Consult the local representative for advice during application in extreme conditions.	
Cleaner	International GTA822 (or GTA415)		
Work Stoppages	Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with International GTA822 or International GTA415. Once units of paint have been mixed, they should not be resealed and it is advised that after prolonged stoppages, work recommences with freshly mixed units.		
Clean Up	Clean all equipment immediately after use with International GTA822. It is good working practice to periodically flush out spray equipment during the course of the working day. Frequency of cleaning will depend upon amount sprayed, temperature and elapsed time, including any delays.		
	All surplus materials and empty containers should be disposed of in accordance with appropriate regional regulations/legislation.		

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PRODUCT CHARACTERISTICS

Maximum film build in one coat is best attained by airless spray. When applying by methods other than airless spray, the required film build is unlikely to be achieved. Application by air spray may require a multiple cross spray pattern to attain maximum film build. Lower or high temperatures may require specific application techniques to achieve maximum film build.

The exact specification with regards to dry film thickness and number of coats will be provided by International Protective Coatings prior to application start up.

Apply in good climatic conditions. The temperature of the surface to be coated must be at least 5°F (3°C) above the dew point.

For all application steps, the surface temperature, air temperature and material temperature should be between 50°F (10°C) and 110°F (43°C).

Do not apply when relative humidity exceeds 80% or when condensation is likely to occur.

Dehumidification (DH), air conditioning and/or heating equipment may be necessary to control environmental conditions.

Consult International Protective Coatings for temperature limits for specific environments.

Note: VOC values are typical and are provided for guidance purpose only. These may be subject to variation depending on factors such as differences in color and normal manufacturing tolerances.

Low molecular weight reactive additives, which will form part of the film during normal ambient cure conditions, will also affect VOC values determined using EPA Method 24.

SYSTEMS COMPATIBILITY

Polibrid 670S will normally be applied to correctly prepared concrete substrates.

Polibrid 670S is normally only specified as part of a complete system with Polibrid 705E.

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ADDITIONAL INFORMATION

Further information regarding industry standards, terms and abbreviations used in this data sheet can be found in the following documents available at www.international-pc.com:

- Definitions & Abbreviations
- Surface Preparation
- Paint Application
- Theoretical & Practical Coverage

Individual copies of these information sections are available upon request.

SAFETY PRECAUTIONS

This product is intended for use only by professional applicators in industrial situations in accordance with the advice given on this sheet, the Material Safety Data Sheet and the container(s), and should not be used without reference to the Material Safety Data Sheet (MSDS) which International Protective Coatings has provided to its customers.

All work involving the application and use of this product should be performed in compliance with all relevant national, Health, Safety & Environmental standards and regulations.

If in doubt regarding the suitability of use of this product, consult International Protective Coatings for further advice.

PACK SIZE	Unit Size	Part A		Part B	
		Vol	Pack	Vol	Pack
	20 liter	17 liter	20 liter	3 liter	3.7 liter
	5 US gal	4.25 US gal	5 US gal	0.75 US gal	1 US gal
For availability of other pack sizes contact International Protective Coatings					
SHIPPING WEIGHT (TYPICAL)	Unit Size	Part A		Part B	
	20 liter	30.8 kg		3.5 kg	
	5 US gal	65 lb		6.8 lb	
STORAGE	Shelf Life	12 months minimum at 77°F (25°C). Subject to re-inspection thereafter. Store in dry, shaded conditions away from sources of heat and ignition.			

Disclaimer

The information in this data sheet is not intended to be exhaustive; any person using the product for any purpose other than that specifically recommended in this data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at their own risk. All advice given or statements made about the product (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability at all for the performance of the product or for (subject to the maximum extent permitted by law) any loss or damage arising out of the use of the product. We hereby disclaim any warranties or representations, express or implied, by operation of law or otherwise, including, without limitation, any implied warranty of merchantability or fitness for a particular purpose. All products supplied and technical advice given are subject to our Conditions of Sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is liable to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to check with their local representative that this data sheet is current prior to using the product.

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