

Epoxy

PRODUCT DESCRIPTION

Ceilcote 610 Ceilpatch is a chemical-resistant epoxy patching/filling compound that is used to fill defects in concrete or steel surfaces prior to the application of Ceilcote lining, coating or flooring systems. It provides excellent adhesion to concrete or steel, minimal shrinkage and superior chemical resistance.

INTENDED USES

Filling air pockets, pinholes, tie holes, form burrs, honeycombs or other defects in concrete. Filling cracks in concrete and smoothing steel welds and pits.

PRACTICAL INFORMATION FOR CEILCOTE 610 CEILPATCH

Colour	Grey
Gloss Level	Not applicable
Volume Solids	100% reactive, although determined volume solids depends upon the application conditions. A recommended working figure is 95%.
Typical Thickness	500 microns (20 mils) dry equivalent to 525 microns (21 mils) wet
Theoretical Coverage	1.8 m ² /litre at 500 microns d.f.t. and stated volume solids 76 sq.ft./US gallon at 20 mils d.f.t. and stated volume solids
Practical Coverage	Allow appropriate loss factors
Method of Application	Trowel
Drying Time	

Temperature	Touch Dry	Hard Dry	Overcoating Interval with recommended topcoats	
			Minimum	Maximum
10°C (50°F)	24 hours	48 hours	24 hours	4 weeks
23°C (73°F)	12 hours	24 hours	12 hours	4 weeks
30°C (86°F)	8 hours	16 hours	8 hours	2 weeks

The drying times quoted have been determined at the quoted temperature and 50% relative humidity.

REGULATORY DATA

Flash Point (Typical)	Part A 94°C (200°F); Part B 94°C (200°F); Mixed 94°C (200°F)	
Product Weight	1.21 kg/l (10.1 lb/gal)	
VOC	0.13 lb/gal (16 g/l)	EPA Method 24

See Product Characteristics section for further details

Epoxy

SURFACE PREPARATION

All surfaces to be patched should be clean, dry and free from contamination. Prior to application, all surfaces should be assessed and treated in accordance with NACE SP0178-2007.

Oil or grease should be removed in accordance with SSPC-SP1 solvent cleaning.

Steel Substrates

For immersion service or service in humid conditions or elevated temperatures, this product should be applied to suitably prepared surfaces which have been prepared by cleaning to SSPC-SP5 and primed with Ceilcote 680M Primer.

Surfaces must be primed using Ceilcote 680 Primer at 50-125 microns WFT (2-5 mils) WFT.

Concrete Substrates

Concrete should be well cured prior to priming with Ceilcote 610 Ceilpatch. The concrete surface should be dry and pass the plastic sheet test (ASTM D4263). All surfaces should be clean, dry and free from curing compounds, release agents, trowelling 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. The surface tensile strength (ASTM 4541) as prepared should be at least 2MPa (300 psi). Refer to the Concrete Surface Preparation Guidelines for more information.

APPLICATION

Mixing	<p>Ceilcote 610 Ceilpatch must always be mixed and applied in accordance with the detailed Application Guidelines for the subsequent system. 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.</p> <ol style="list-style-type: none"> (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. 								
Working Pot Life	<table border="0"> <tr> <td>10°C (50°F)</td> <td>15°C (59°F)</td> <td>23°C (73°F)</td> <td>30°C (86°F)</td> </tr> <tr> <td>2 hours</td> <td>90 minutes</td> <td>60 minutes</td> <td>30 minutes</td> </tr> </table>	10°C (50°F)	15°C (59°F)	23°C (73°F)	30°C (86°F)	2 hours	90 minutes	60 minutes	30 minutes
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2 hours	90 minutes	60 minutes	30 minutes						
Trowel	Recommended								
Thinner	DO NOT THIN								
Cleaner	Ceilcote T-410 Solvent (or MEK)								
Work Stoppages	Do not allow material to remain on equipment. Thoroughly clean all equipment with T-410 Solvent (or MEK). 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	<p>Clean all equipment immediately after use with T-410 Solvent (or MEK).</p> <p>All surplus materials and empty containers should be disposed of in accordance with appropriate regional regulations/legislation.</p>								

Epoxy

PRODUCT CHARACTERISTICS

The detailed Application Guidelines for the relevant Ceilcote system should always be consulted prior to use.

The Ceilcote 610 Ceilpatch application shall be conducted by the Applicator Company using employees trained in the appropriate application procedures. It is strongly advised that both application and application supervision is only carried out by professional personnel who have been trained in the correct use of the products.

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.

Surface temperature must always be a minimum of 3°C (5°F) above dew point.

Ensure adequate ventilation is provided throughout application and curing. Dehumidification (DH) air conditioning and/or heating equipment may be necessary to control environmental conditions.

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

Maximum continuous dry temperature resistance for Ceilcote 610 Ceilpatch is 104°C (220°F).

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 colour 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

Ceilcote 610 Ceilpatch should be applied to correctly prepared substrates. However, it is suitable for application to the following primers:

Ceilcote 680M
Ceilcote 680 Primer

Ceilcote 610 Ceilpatch can be overcoated with a range of compatible Ceilcote coatings. Contact International Protective Coatings for further information.

Epoxy

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
- Ceilcote 610 Ceilpatch Application Guidelines

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.

In the event welding or flame cutting is performed on metal coated with this product, dust and fumes will be emitted which will require the use of appropriate personal protective equipment and adequate local exhaust ventilation.

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
	2 US gal	1 US gal	1 US gal	1 US gal	1 US gal
	10 US gal	5 US gal	5 US gal	5 US gal	5 US gal
For availability of other pack sizes, contact International Protective Coatings.					
SHIPPING WEIGHT (TYPICAL)	Unit Size	Part A		Part B	
	2 US gal	10.3 lb		9.1 lb	
	10 US gal	51.6 lb		46 lb	
STORAGE	Shelf Life	18 months at 23°C (73°F). Subject to re-inspection thereafter. Store in dry, shaded conditions away from sources of heat and ignition.			

Important Note

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.

This Technical Data Sheet is available on our website at www.international-marine.com or www.international-pc.com, and should be the same as this document. Should there be any discrepancies between this document and the version of the Technical Data Sheet that appears on the website, then the version on the website will take precedence.

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