

Hybrid Novolac

PRODUCT DESCRIPTION

Ceilcote 387 Hybricote is a revolutionary, new, high performance system designed to provide exceptional resistance to aggressive chemicals such as Methylene chloride, acetone, methanol, nitric acid and n-methyl-pyrrolidone.

INTENDED USES

For coating/lining tanks and steel structures, trenches and pits, vaults and dykes, and secondary containment surfaces.

PRACTICAL INFORMATION FOR CEILCOTE 387 HYBRICOTE

Colour	Grey, Red
Gloss Level	Not applicable
Volume Solids	100% reactive
Typical Thickness	375-625 microns (15-25 mils) dry equivalent to 417-694 microns (16.7-27.8 mils) wet Thickness minimum per coat must be kept at 15 mils or above. Lower thickness coats will not cure properly.
Practical Coverage	2 m ² /litre at 450 microns d.f.t and 90% volume solids 80 sq.ft/US gallon at 18 mils d.f.t and 90% volume solids (see Page 3 Product Characteristics)
Method of Application	Airless Spray

Drying Time

Temperature	Touch Dry	Hard Dry	Overcoating Interval with recommended topcoats	
			Minimum	Maximum
10°C (50°F)	5 hours	24 hours	12 hours	7 days
15°C (59°F)	4 hours	16 hours	8 hours	5 days
23°C (73°F)	2 hours	5 hours	4 hours	4 days
30°C (86°F)	1.5 hours	3 months	2 hours	2 days

REGULATORY DATA

Flash Point (Typical)	Part A 32°C (90°F); Part B 77°C (171°F); Mixed 32°C (90°F)		
Product Weight	1.25 kg/l (10.4 lb/gal)		
VOC	0.48 lb/gal (58 g/l)	EPA Method 24	

See Product Characteristics section for further details

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SURFACE PREPARATION

All surfaces to be coated should be clean, dry and free from contamination. Prior to coating application, all steel 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 surfaces which have been prepared by abrasive blast cleaning to Sa3 (ISO 8501-1:2007), SSPC SP5 or NACE #1. For dry environments, abrasive blast cleaning to Sa2½ (ISO 8501-1:2007), SSPC SP10 or NACE #2 will be suitable. A surface profile of 75-125 microns (3-5 mils) is required.

Concrete Substrates

Refer to International Protective Coatings' Concrete Surface Preparation Guidelines for further information. Concrete surfaces should be primed with a suitable primer prior to application of Ceilcote 387 Hybricote; see Systems Compatibility section for further details.

APPLICATION

Mixing	Ceilcote 387 Hybricote 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 the materials in the proportions supplied. Once the material has been mixed, it must be used within the working pot life specified.			
	<ol style="list-style-type: none"> (1) Agitate Base (Part A) with a power agitator. (2) Combine Curing Agent (Part B) with Base (Part A) and mix thoroughly with power agitator. 			
Mix Ratio	20 ml. Curing agent to 1 litre of Base (2½ fl oz Curing agent to 1 gallon of Base)			
Working Pot Life	10°C (50°F) 180 minutes	15°C (59°F) 90 minutes	23°C (73°F) 50 minutes	30°C (86°F) 20 minutes
Airless Spray	Recommended	Tip Range 0.69-0.94 mm (27-37 thou) Total output fluid pressure at spray tip not less than 155 kg/cm ² (2204 p.s.i.)		
Brush	Suitable - small areas only	Multiple coats may be required to achieve specified film thickness.		
Roller	Suitable - small areas only	Multiple coats may be required to achieve specified film thickness.		
Thinner	DO NOT THIN			
Cleaner	Ceilcote T410 Solvent (or MEK)			
Work Stoppages	Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with International GTA007. 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 T410 Solvent (or MEK). 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

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

Although Ceilcote 387 Hybricote is 100% reactive, depending upon the application conditions, the practical volume solids may be lower and International Protective Coatings suggest a value of 90% for estimating spreading rate.

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).

When working outside or in direct sunlight, concrete "gassing" or "breathing" may occur when the surface temperature is rising due to sunlight or increasing ambient temperature. This can cause bubbles or holes in the applied floor, lining or coating. When this problem occurs it is necessary to shade the surface from sunlight and/or apply the material in the cooler evening or at night so that initial cure can take place without air escaping from the concrete. Consult International Protective Coatings for more detailed recommendation.

Where the overcoating interval is exceeded, confirm recoatability by wiping with styrene monomer. If the surface becomes 'tacky', adhesion is acceptable. If not softened by styrene, the surface must be sweep blasted or mechanically abraded to provide a non-glossy, abraded surface. Primed surface must be dry and free of foreign matter at time of lining, coating or flooring application.

Following correct installation, Ceilcote 387 Hybricote may be returned to service after the following intervals:

10°C (50°F):	5 days
23°C (73°F):	24 hours
30°C (86°F):	16 hours

Ceilcote 387 Hybricote is not intended to be used as a cosmetic finish and colour stability will not be achievable.

Maximum continuous dry temperature resistance for Ceilcote 387 Hybricote is 177°C (350°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 387 Hybricote should be applied to correctly prepared substrates after application of the following primers:

Ceilcote 370HT Primer Ceilcote 380 Primer

Ceilcote 387 Hybricote may be overcoated with itself.

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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
- Ceilcote 387 Hybricote 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
	4 US gal	4 US gal	5 US gal	10 fl oz	1 US pint
For availability of other pack sizes, contact International Protective Coatings.					
SHIPPING WEIGHT (TYPICAL)	Unit Size	Part A		Part B	
		100.9 lb		2.2 lb	
STORAGE	Shelf Life	3 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.

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