

reinforcement. It is design Ceilcote 505 Coroline has trenches, tank pads, floor	tains graded fillers and i ed for use where a high found extensive use in	is reinforced with a s	ingle layer of chopped	strand mat						
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reinforcement. It is design Ceilcote 505 Coroline has trenches, tank pads, floor	ed for use where a high found extensive use in									
trenches, tank pads, floor				Ceilcote 505 Coroline contains graded fillers and is reinforced with a single layer of chopped strand mat reinforcement. It is designed for use where a high level of chemical and corrosion resistance is required.						
It is widely used in areas o	Ceilcote 505 Coroline has found extensive use in a number of industry sectors in applications such as storage tanks trenches, tank pads, floor topping, secondary containment and process equipment.									
It is widely used in areas of dilute acid and in highly caustic environments.										
Color	Grey									
Gloss Level	Not applicable									
Volume Solids	97%									
Typical Thickness	Basecoat: 60 mils (1500microns) dry equivalent to 62 mils (1546microns) wet, with a theoretical coverage of 55 sq.ft/US gallon (1.41sq.m/litre) Laminate (Resin saturated reinforced mat): 32 mils (800microns) with a theoretical coverage of 50 sq.ft/US gallon(1.42 sq.m/litre) Topcoat: 60 mils (1500microns) dry equivalent to 62mils (1546microns) wet, with a theoretical coverage of 55 sq.ft/US gallon (1.41 sq.m/litre)									
Practical Coverage Allow appropriate loss factors. Coverage will vary according to individual systems and the configuration of the surface to be coated; consult the relevant Application Guidelines and specification for further information.										
Method of Application Trowel, Roller										
Drying Time	Overcoating Interval with									
Temperature	Touch Dry	Hard Dry		ded topcoats <i>Maximum</i>						
-		_		28 days						
				28 days						
				28 days						
104°F (40°C)	2 hours	3 hours	2 hours	7 days						
Flash Point (Typical) Part A 106°F (41°C): Part B 262°F (128°C): Mixed 106°F (41°C)										
		. ,								
_		FPA Methor	1 24							
	35 g/kg	EL	J Solvent Emissions D							
See Product Characteristics section for further details										
	Gloss Level Volume Solids Typical Thickness Practical Coverage Method of Application Drying Time Temperature 50°F (10°C) 59°F (15°C) 77°F (25°C)	Gloss Level Not applicable Volume Solids 97% Typical Thickness Basecoat:60 i With a theoreti Laminate (Re theoretical cov Topcoat:60 m a theoretical cov Topcoat:60 m a theoretical cov Topcoat:60 m a theoretical cov Practical Coverage Allow appropriand the config Guidelines and the config Guidelines and the config Guidelines and the config Suidelines and the config Suideli	Gloss Level Not applicable Volume Solids 97% Typical Thickness Basecoat:60 mils (1500microns) divith a theoretical coverage of 55 sc, Laminate (Resin saturated reinfor theoretical coverage of 50 sq, ft/US Topcoat:60 mils (1500microns) divith a theoretical coverage of 55 sq, ft/U Practical Coverage Allow appropriate loss factors. Covand the configuration of the surface Guidelines and specification for fur Method of Application Trowel, Roller Drying Time Touch Dry Hard Dry 50°F (10°C) 15 hours 24 hours 59°F (15°C) 11 hours 19 hours 77°F (25°C) 3 hours 7 hours 104°F (40°C) 2 hours 3 hours Flash Point (Typical) Part A 106°F (41°C); Part B 262°F (128°C) Product Weight 9.2 lb/gal (1.1 kg/l) VOC 0.54 lb/gal (65 g/lt) EPA Method 35 g/kg EI	Gloss Level Not applicable Volume Solids 97% Typical Thickness Basecoat:60 mils (1500microns) dry equivalent to 62 mil with a theoretical coverage of 55 sq.ft/US gallon (1.41 sq. Laminate (Resin saturated reinforced mat):32 mils (80 theoretical coverage of 50 sq.ft/US gallon (1.41 sq.m/litter) Topcoat:60 mils (1500microns) dry equivalent to 62mils a theoretical coverage of 55 sq.ft/US gallon (1.41 sq.m/litter) Practical Coverage Allow appropriate loss factors. Coverage will vary accordin and the configuration of the surface to be coated; consult Guidelines and specification for further information. Method of Application Trowel, Roller Drying Time Overcoating recomment So°F (10°C) 15 hours 24 hours 9 hours 59°F (15°C) 11 hours 19 hours 8 hours 77°F (25°C) 3 hours 7 hours 4 hours 104°F (40°C) 2 hours 3 hours 2 hours Flash Point (Typical) Part A 106°F (41°C); Part B 262°F (128°C); Mixed 106°F (41°C) Product Weight 9.2 lb/gal (65 g/lt) EPA Method 24						

Protective Coatings

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AkzoNobel



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SURFACE PREPARATION

All surfaces to be coated should be clean, dry and free from contamination. Prior to application, all surfaces should be assessed and treated in accordance with ISO 8504:2000.

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

Steel Substrates

This product should be applied to suitably primed surfaces which have been prepared by abrasive blast cleaning to Sa3 (ISO 8501-1:2007), SSPC SP5 or NACE #1. For dry environments or fume service, abrasive blast cleaning to Sa2½ (ISO 8501-1:2007), SSPC SP10 or NACE #2 will be suitable. A surface profile of 100 microns (4 mils) is required.

Concrete Substrates

Concrete should be well cured prior to priming with the appropriate primer. 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 Ceilcote 505 Coroline must always be mixed and applied in accordance with the detailed Mixing Application Guidelines for the subsequent system. The resin component of this material is supplied in two containers as a unit. Always mix a complete unit in the proportions supplied. Once the material has been mixed it must be used within the working pot life specified. Agitate Part A, then combine the entire contents of Part A and Part B and mix (1)thoroughly with a power agitator. Part C, the powder component, should be slowly added to the thoroughly (2) mixed Part A and Part B whilst stirring with a power agitator. See Product Characteristics Section for details of quantities required. Mix Ratio 8 part(s) : 1 part(s) by volume Working Pot Life 50°F (10°C) 59°F (15°C) 77°F (25°C) 104°F (40°C) 90 minutes 60 minutes 45 minutes 30 minutes Brush Recommended Use for application of resin saturant and smoothing liquid Roller Recommended Use for application of resin saturant and smoothing liquid Trowel Recommended Use for application of basecoat and topcoat DO NOT THIN Thinner Cleaner Ceilcote T-410 Solvent (or MEK) Once units of paint have been mixed they should not be resealed and it is advised that Work Stoppages after prolonged stoppages work recommences with freshly mixed units. Clean all equipment immediately after use with T-410 Solvent. Clean Up 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.

The Ceilcote 505 Coroline 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 5°F (3°C) 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 50°F (10° C) and 110° F (43° C)

Exposure to unacceptably low temperatures and/or high humidities during, or immediately after, application may result in incomplete cure and surface contamination that could jeopardize subsequent intercoat adhesion.

Powder Grades

Ceilcote 505 Coroline is available in three grades; 505, 505AR and 505B. The required, type and quantity of powder for each grade per gallon (and litre) of mixed resin is as follows:

505	S-1 Powder	22-26lb/gal (2.6-3.1kg/l). Powder is added to both basecoat and topcoat.
505AR	S-9AR Powder	22-26lb/gal (2.6-3.1kg/l). Powder is added to topcoat only.
505B	B-4 Powder	14-18lb/gal (1.7-2.2kg/l). Powder is added to both basecoat and topcoat.

(AR = Abrasion Resistant Grade, B = Conductive Grade)

For mixing of full units a suitable mechanical mixer is required. For mixing of small quantities the powder should be added to the Base (Part A) component and thoroughly mixed before adding the correct amount of Hardener (Part B).

Application

Using a trowel, apply 40-80 mils (1000-2000 microns) of basecoat (target 60 mils, 1500 microns). Press the mat reinforcement into the basecoat, leaving no wrinkles or hollows and apply resin saturant until the reinforcement is translucent. Allow to cure and apply 40-80 mils (1000-2000 microns) of topcoat (target 60 mils, 1500 microns). Allow to cure.

Ceilcote 505 Coroline can be used as part of a **Ceilline system** as follows: Prime using Ceilcote 680 or 680M primer followed by an elastomeric basecoat layer of Ceilcote Ceilline including the mat reinforcement. Complete with a final layer of Ceilcote 505 Coroline.

Following correct installation, Ceilcote 505 Coroline may be returned to service after the following intervals:

50°F (10°C): 48 hours 70°F (20°C): 24 hours 90°F (35°C): 16 hours

Ceilcote 505 Coroline is not intended to be used as a cosmetic finish and color stability will not be achievable.

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 effect VOC values determined using EPA Method 24.

SYSTEMS COMPATIBILITY Ceilcote 505 Coroline should always be applied over correctly prepared primed substrates. Suitable primers are:

Ceilcote 680 Primer Ceilcote 680M

Ceilcote 505 Coroline may also form a constituent part of other systems such as

Ceilcote Ceilline grades (Ceilcote 505/505AR/505B Ceilline)



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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 505 Coroline 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. All work involving the application and use of this product should be performed in compliance with all relevant national Health, Safety and Environmental standards, regulations and legislation. Proper ventilation must be provided during application and afterwards during curing (refer to product datasheets for typical curing times) to ensure safe limits and prevent fires and explosions. Forced extraction will be required in confined spaces. Ventilation and/or respiratory personal protective equipment (airfed hoods or appropriate cartridge masks) must be provided during application and curing. Take precautions to avoid skin and eye contact (overalls, gloves, goggles, masks, barrier cream, etc).				
	Before use, obtain, read and then follow the advice given on the Material Safety Data Sheets (Base and Curing Agent if two-pack) and the Health and Safety section of the Coatings Applications Procedures for this product.				
	In the event that 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.				
	The detailed safety measures are dependent on application methods and the work environment. If you do not fully understand these warnings and instructions or if you cannot strictly comply with them, do not use the product and consult International Protective Coatings.				

PACK SIZE	Unit Size 20 liter 5 US gal	Part A Vol Pack 17.78 liter 20 liter 4.44 US gal 5 US gal	Part B Vol Pa 2.22 liter 4 l 0.56 US gal 1 US	liter			
Consult Ceilcote 505 Coroline Installation Procedures for specific details							
SHIPPING WEIGHT	Unit Size	Part A	Part B				
(TYPICAL)	20 liter	21.52 kg	2.61 kg				
	5 US gal	45 lb	5.5 lb				
	Powder component is typically supplied in 50lb or 20kg units depending upon supply location. Contact International Protective Coatings for further details.						
STORAGE	Shelf Life		18 months minimum at 77°F (25°C). Consult Ceilcote 505 Coroline Installation Procedures for specific details				

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 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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