

# Ceilcote® 242HT Flakeline



## Vinyl Ester

### PRODUCT DESCRIPTION

Ceilcote 242HT Flakeline is a glass flake filled, catalyzed vinyl ester system with excellent resistance to organic and inorganic acid solutions and many aliphatic solvents.

### INTENDED USES

For use on correctly prepared tanks and steel structures, concrete trenches, pits, dikes and secondary containment. Ceilcote 242HT Flakeline may also be used as a chemical resistant floor coating.

### PRACTICAL INFORMATION FOR CEILCOTE 242HT FLAKELINE

<b>Color</b>	Gray, Off White
<b>Gloss Level</b>	Not applicable
<b>Volume Solids</b>	100% reactive
<b>Typical Thickness</b>	15-25 mils (375-625 microns) dry equivalent to 17.6-29.4 mils (441-735 microns) wet per coat
<b>Practical Coverage</b>	76 sq.ft/US gallon at 18 mils d.f.t and 85% volume solids 1.90 m <sup>2</sup> /litre at 450 microns d.f.t and 85% volume solids (see Page 3 Product Characteristics)
<b>Method of Application</b>	Airless Spray, Roller, Brush

### Drying Time

Temperature	Touch Dry	Hard Dry	Overcoating interval with self	
			Minimum	Maximum
50°F (10°C)	5 hours	24 hours	12 hours	7 days <sup>1</sup>
59°F (15°C)	4 hours	16 hours	8 hours	7 days <sup>1</sup>
77°F (25°C)	2 hours	4.5 hours	4 hours	7 days <sup>1</sup>
95°F (35°C)	1.5 hours	3 hours	3 hours	7 days <sup>1</sup>

<sup>1</sup> When surface temperatures exceed 95°F (35°C) or are exposed to direct sunlight, overcoating should take place as soon as the coating may be walked on, in order to avoid intercoat adhesion issues.

**REGULATORY DATA** **Flash Point (Typical)** Part A 90°F (32°C); Part B 171°F (77°C); Mixed 90°F (32°C)

**Product Weight** 10.1 lb/gal (1.21 kg/l)

**VOC** 2.54 lb/gal (305 g/l) EPA Method 24  
174 g/kg EU Solvent Emissions Directive  
(Council Directive 1999/13/EC)  
0.77 lb/gal (93 g/l) ASTM D2369

See Product Characteristics section for further details

## Protective Coatings

# Ceilcote® 242HT Flakeline



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### SURFACE PREPARATION

All surfaces to be coated should be clean, dry and free from contamination. Prior to paint 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

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 minimum surface profile of 3 mils (75 microns) 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 300 psi (2MPa). Refer to the Concrete Surface Preparation Guidelines for more information.

Surfaces must be primed using Ceilcote 380 Primer at 2-5 mils WFT (50-125 microns WFT).

### APPLICATION

<b>Mixing</b>	Ceilcote 242HT Flakeline 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.			
	<ol style="list-style-type: none"> <li>(1) Agitate Base (Part A) with a power agitator.</li> <li>(2) Combine entire contents of Curing Agent (Part B) with Base (Part A) and mix thoroughly with power agitator.</li> </ol>			
	Do not mix more material than can be applied within the recommended pot life.			
<b>Mix Ratio</b>	1 gallon Part A : 2½oz Part B (1 litre Part A : 20ml Part B )			
<b>Working Pot Life</b>	50°F (10°C) 60 minutes	59°F (15°C) 50 minutes	77°F (25°C) 50 minutes	95°F (35°C) 40 minutes
<b>Airless Spray</b>	Recommended	Tip Range 27-37 thou (0.69-0.94 mm) Total output fluid pressure at spray tip not less than 2204 psi (155 kg/cm²)		
<b>Brush</b>	Suitable - Small areas only	Multiple coats may be required to achieve specified film thickness.		
<b>Roller</b>	Suitable - Small areas only	Multiple coats may be required to achieve specified film thickness.		
<b>Thinner Cleaner</b>	DO NOT THIN Ceilcote T-410 Solvent (or MEK)			
<b>Work Stoppages</b>	Do not allow material to remain on equipment. Thoroughly clean all equipment with T-410 Solvent. 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.			
<b>Clean Up</b>	Clean all equipment immediately after use with T-410 Solvent. Frequency of cleaning will depend upon amount applied, 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.

The Ceilcote 242HT Flakeline 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.

Although Ceilcote 242HT Flakeline is 100% reactive, depending upon the application conditions, the practical volume solids may be lower and International Protective Coatings suggest a value of 85% for estimating spreading rate.

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)

When surface temperatures exceed 95°F (35°C) or are exposed to direct sunlight, overcoating should take place as soon as the coating may be walked on, in order to avoid intercoat adhesion issues.

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 242HT Flakeline 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 242HT Flakeline is not intended to be used as a cosmetic finish and color stability will not be achievable.

Maximum continuous dry temperature resistance for Ceilcote 242HT Flakeline is 350°F (177°C).

Ceilcote 242HT Flakeline can be used as part of the following systems:

#### Lining System

Prime using Ceilcote 380 primer. Apply additional primer and immediately apply a mat reinforcement leaving no wrinkles or hollows. Use additional material where necessary until the reinforcement is translucent. Complete using one or more layers of Ceilcote 242HT Flakeline.

#### MR System

Prime using Ceilcote 380 primer followed by a basecoat of Ceilcote 6640 Ceilcrete including the mat reinforcement layer. Complete using one or more layers of Ceilcote 242HT Flakeline.

#### Ceilline System

Prime using Ceilcote 680 or 680M primer followed by an elastomeric basecoat layer of Ceilcote Ceilline including the mat reinforcement. Complete using one or more layers of Ceilcote 242HT Flakeline.

Further application details may be found on the data sheets of the individual products mentioned.

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

Ceilcote 242HT Flakeline should be applied to correctly prepared substrates. However, it is suitable for application to the following primers:

Ceilcote 380 Primer

Ceilcote 242HT Flakeline may also form a constituent part of other systems such as

Ceilcote 242HT Ceilline

Ceilcote 242HT Lining

Ceilcote 242HT MR

Ceilcote 242HT Flakeline is usually 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](http://www.international-pc.com):

- Definitions & Abbreviations
- Surface Preparation
- Paint Application
- Theoretical & Practical Coverage
- Ceilcote 242HT Flakeline 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 drying (Refer to product datasheets for typical drying times) to keep solvent concentrations within 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 drying. 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	Part A		Part B	
		Vol	Pack	Vol	Pack
	15 liter	14.71 liter	20 liter	0.29 liter	0.7 liter
	4 US gal	4 US gal	5 US gal	12.5 fl oz	1 US pint
For availability of other pack sizes contact International Protective Coatings					
SHIPPING WEIGHT (TYPICAL)	Unit Size	Part A		Part B	
	15 liter	19.71 kg		0.39 kg	
	4 US gal	44.7 lb		1 lb	
STORAGE	Shelf Life	6 months at 68°F (20°C). Subject to re-inspection thereafter. Store in dry, shaded conditions away from sources of heat and ignition. During storage and shipment, Ceilcote 242HT Flakeline initiator must not be exposed to temperatures exceeding 30°C ( 90°F). Refrigeration recommended. Best practice would be to hold Parts A and B in separate stores.			

### 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.*

*This Technical Data Sheet is available on our website at [www.international-marine.com](http://www.international-marine.com) or [www.international-pc.com](http://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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