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#### **TECHNICAL DATA SHEET**

## **SECTION 9** LEED / Green

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#### TECHNICAL DATA SHEET

#### **DESCRIPTION**

Clean Strip™ J1EF is an economical V.O.C. compliant, concrete form release agent. Clean Strip™ J1EF works to ensure clean, positive release on plywood, fiberglass, aluminum, steel, urethane and other concrete forming materials and form liners. This product acts as a barrier to the adhesion of concrete while minimizing surface dusting. Properly applied, Clean Strip™ J1EF will not stain concrete or interfere with the adhesion of coatings.

#### USE

Clean Strip™ J1EF works to ensure clean, positive release on plywood, fiberglass, aluminum, steel, urethane and other concrete forming materials and form liners.

#### **FEATURES**

- Economical
- V.O.C. compliant
- Clean, positive release
- Minimizes surface dusting
- Reduced surface defects
- Non-staining
- Water clean up
- Biodegradable
- May contribute to LEED credits
- Excellent sprayability

#### **V.O.C. CONTENT**

Contains 0 g/L. Compliant with all US VOC regulations for Concrete Form Release agents including Federal EPA, OTC, LADCO, SCAQMD & CARB.

#### **ESTIMATED COVERAGE**

Hard/dense/smooth forms (plastic, fiberglass, steel, HDO, aluminum)

1000 - 1500 sq. ft./gal.

(24.6 - 36.9 sq m/L)

Medium density overlaid plywood

1000 – 1250 sq. ft./gal.

(24.6 - 30.7 sq m/L)

Dimensional or rough lumber, striated plywood

500 - 1000 sq. ft./gal.

(12.3 - 24.6 sq m/L)

Apply 2 coats @ 500 sq ft /gal (12.3 sq m/L) on new forms, then 1000 sq ft /gal (24.6 sq m / L) on subsequent treatments

Note: Texture and surface absorption of forming material will influence final coverage rates.

#### **PACKAGING**

ITEM #	PACKAGE	SIZE	
		Gallon	Liter
309374	Pail	5 Gal.	18.93
309373	Drum	55 Gal.	208.20
309372	Tote	275 Gal	1040.99

#### **STORAGE**

Keep from freezing. Store in original containers, keeping container lids, spouts and/or bungs tightly sealed. Shelf life of 12 months in properly stored sealed containers.

#### **APPLICATION**

**Surface Preparation:** Surfaces to be treated should be clean and free of all water, dust and dirt or residues, which might transfer to the final concrete surface.

Mixing: Stir well prior to use

Placement: Apply during dry weather with low-pressure spray, roller or brush. Apply uniformly to assure proper coverage. Use of a fine fan tip, 0.1-0.2 gpm allows for more even coverage and avoidance of excess material. For improved application consistency and reduction in labor utilize the Dayton Spray-Pro (Item # 309233 or 309232) power spray system. Wipe excess material from forms prior to form construction and concrete placement. FOR BEST RESULTS APPLY TO FORMS BEFORE EACH USE.

#### **CLEAN UP**

Use clean water for clean up.

#### **LIMITATIONS**

#### FOR PROFESSIONAL USE ONLY

Forms and equipment must be clean and dry prior to use.

Excessive rain after application prior to concrete placement may require re-application.

When properly treated forms should have a uniform thin film, with a slight waxy feel.

After use, a white residue may be visible on forms. This is normal for water based form release agents and should not be confused with concrete build up.



Form Release

## PRECAUTIONS READ MSDS PRIOR TO USING PRODUCT

- Use with adequate ventilation
- Wear protective clothing, gloves and eye protection (Goggles, Safety Glasses and/or Face Shield)
- Keep out of the reach of children
- Do not take internally
- In case of ingestion, seek medical help immediately
- May cause skin irritation upon contact, especially prolonged or repeated. If skin contact occurs, wash immediately with soap and water and seek medical help as needed
- If eye contact occurs, flush immediately with clean water and seek medical help as needed
- Dispose of waste material in accordance with federal, state and local requirements

#### **MANUFACTURER**

Dayton Superior Corporation 1125 Byers Road Miamisburg, OH 45342 Customer Service: 888-977-9600

Technical Services: 866-329-8724
Website: www.daytonsuperior.com



#### **WARRANTY**

Dayton Superior Corporation ("Dayton") warrants for 12 months from the date of manufacture or for the duration of the published product shelf life, whichever is less, that at the time of shipment by Dayton, the product is free of manufacturing defects and conforms to Dayton's product properties in force on the date of acceptance by Dayton of the order. Dayton shall only be liable under this warranty if the product has been applied, used, and stored in accordance with Dayton's instructions, especially surface preparation and installation, in force on the date of acceptance by Dayton of the order. The purchaser must examine the product when received and promptly notify Dayton in writing of any non-conformity before the product is used and no later than 30 days after such non-conformity is first discovered. If Dayton, in its sole discretion, replace the non-conforming product, refund the purchase price or issue a credit in the amount of the purchase price. This is the sole and exclusive remedy for breach of this warranty. Only a Dayton officer is authorized to modify this warranty. The information in this data sheet supersedes all other sales information received by the customer during the sales process. THE FOREGOING WARRANTY SHALL BE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND ALL OTHER WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND ALL OTHER WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND ALL OTHER WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND ALL OTHER WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND ALL OTHER WARRANTIES OTHERWISE ARISING BY OPERATION OF LAW, COURSE OF DEALING, CUSTOM, TRADE OR OTHERWISE.

Dayton shall not be liable in contract or in tort (including, without limitation, negligence, strict liability or otherwise) for loss of sales, revenues or profits; cost of capital or funds; business interruption or cost of downtime, loss of use, damage to or loss of use of other property (real or personal); failure to realize expected savings; frustration of economic or business expectations; claims by third parties (other than for bodily injury), or economic losses of any kind; or for any special, incidental, indirect, consequential, punitive or exemplary damages arising in any way out of the performance of, or failure to perform, its obligations under any contract for sale of product, even if Dayton could foresee or has been advised of the possibility of such damages. The Parties expressly agree that these limitations on damages are allocations of risk constituting, in part, the consideration for this contract, and also that such limitations shall survive the determination of any court of competent jurisdiction that any remedy provided in these terms or available at law fails of its essential purpose.





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### Cure & Seal 1315 EF

Earth Friendly Cure & Seal

#### TECHNICAL DATA SHEET

#### **DESCRIPTION**

Cure & Seal 1315 EF is an Earth Friendly (EF) non-yellowing 30% solids acrylic copolymer curing and sealing compound that may contribute to LEED Credits. The Cure & Seal 1315 EF formula is low odor and contains VOC < 100 g/L, making it VOC compliant in all areas. Cure & Seal 1315 EF cures, seals and dustproofs freshly finished concrete surfaces.

#### **USE**

Cure & Seal 1315 EF is designed to be used on freshly finished concrete as an earth friendly membrane forming curing compound that surpasses the requirements of ASTM C-309 and C-1315. Cure & Seal 1315 EF can be used on both interior and exterior concrete surfaces. This ultra low VOC curing and sealing compound can be used in all VOC restricted regions throughout the United States.

#### **FEATURES**

- May Contribute to LEED credits
- Earth Friendly (EF), VOC < 100 g/L
- VOC Compliant in All Regions
- Ultra UV Stable, Non-yellowing
- Attractive Gloss Finish
- Cures/Seals/Dustproofs New Concrete
- Low Odor
- Non-Flammable
- Safe to Use & Store
- Meets ASTM C1315

#### **PROPERTIES**

ASTM C1315, Type 1 Class A ASTM C309, Type I Classes A & B AASHTO M-148, Type 1, Classes A & B

Solids Content: 30%

Note: Federal Specification TT-C-800A was cancelled and officially replaced by ASTM C-309.

Moisture Retention: ASTM C156: <0.40 kg/sq m in 72 hours

Dry Time: Approximately 2-3 hours at 70°F (21°C) for recoating or light traffic. Wait 12 hours for heavy traffic. Dry time is temperature, wind and humidity dependent.

#### VOC

Actual VOC = 92 g/L. Compliant with all US VOC regulations for Concrete Curing Compounds including Federal EPA, OTC, LADCO, SCAQMD & CARB.

#### **ESTIMATING GUIDE**

	Sq. Ft./Gallon	Sq M/Liter
Curing:	200 - 400	4.9 - 9.8
Second Coat:	400-600	9.814.7

Texture and absorption of surface will influence final coverage rates

#### **PACKAGING**

ITEM #	PACKAGE	SIZE	
		Gallons	Liters
308669	Pail	5	18.93
308670	Drum	55	208.20

#### **STORAGE**

The Cure & Seal 1315 EF should be stored in tightly sealed original factory containers. Store in a horizontal position to prevent moisture accumulation on the drum head. Do not allow to freeze. Shelf life of properly stored, unopened containers is 18 months.

#### **APPLICATION**

Mixing: Stir thoroughly prior to use. Do not thin or dilute.

Placement: Apply Cure & Seal 1315 EF immediately after all surface water has disappeared and surface cannot be marred. Application of Cure & Seal 1315 EF too early or too late can affect the overall curing performance. Use low pressure spray, roller or brush. Apply uniformly without puddles. Multiple thin coats are preferable over heavy coats. For improved application consistency and reduction in labor, use the Dayton Spray-Pro (Item # 309233 or 309232) power spray system. Application of a second coat, after the 1st coat has dried will provide a longer lasting, higher gloss film with improved water retention properties.

#### **CLEAN UP**

Clean tools and equipment with clean water while product is still wet. Dried material may be removed with Green Bean Clean.

## LIMITATIONS FOR PROFESSIONAL USE ONLY

This product should not be used at temperatures below  $40^{\circ}$ F ( $4^{\circ}$ C).

Do not apply concrete or mortar toppings over sealed surfaces.

Avoid spraying Cure & Seal 1315 EF into joint prior to installation of sealant.

May show rubber tire marks.

Do not use high speed mixing equipment.



### Cure & Seal 1315 EF

#### Earth Friendly Cure & Seal

Remove Cure & Seal 1315 EF with Citrus Cleaner J48 or Green Bean Clean® before applying resinous (epoxy, polyester, urethanes, etc.) coatings

## PRECAUTIONS READ MSDS PRIOR TO USING PRODUCT

- Use with adequate ventilation
- Wear protective clothing, gloves and eye protection (Goggles, Safety Glasses and/or Face Shield)
- Keep out of the reach of children
- Do not take internally
- In case of ingestion, seek medical help immediately
- May cause skin irritation upon contact, especially prolonged or repeated. If skin contact occurs, wash immediately with soap and water and seek medical help as needed
- If eye contact occurs, flush immediately with clean water and seek medical help as needed
- Dispose of waste material in accordance with federal, state and local requirements

#### **MANUFACTURER**

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Dayton shall not be liable in contract or in tort (including, without limitation, negligence, strict liability or otherwise) for loss of sales, revenues or profits; cost of capital or funds; business interruption or cost of downtime, loss of use, damage to or loss of use of other property (real or personal); failure to realize expected savings; frustration of economic or business expectations; claims by third parties (other than for bodily injury), or economic losses of any kind; or for any special, incidental, indirect, consequential, punitive or exemplary damages arising in any way out of the performance of, or failure to perform, its obligations under any contract for sale of product, even if Dayton could foresee or has been advised of the possibility of such damages. The Parties expressly agree that these limitations on damages are allocations of risk constituting, in part, the consideration for this contract, and also that such limitations shall survive the determination of any court of competent jurisdiction that any remedy provided in these terms or available at law fails of its essential purpose.





#### Earth Friendly Cure & Seal

#### TECHNICAL DATA SHEET

#### **DESCRIPTION**

Cure & Seal 309 EF is an Earth Friendly (EF) non-yellowing acrylic copolymer curing and sealing compound that may contribute to LEED Credits. The Cure & Seal 309 EF formula is low odor and contains VOC < 100 g/L, making it compliant in all areas. Cure & Seal 309 EF cures, seals and dustproofs freshly finished concrete surfaces.

#### **USE**

Cure & Seal 309 EF is designed to be used on freshly finished concrete as an earth friendly membrane forming curing compound that surpasses the requirements of ASTM C309. Cure & Seal 309 EF can be used on both interior and exterior concrete surfaces. This ultra low VOC curing and sealing compound can be used in all VOC restricted regions throughout the United States.

#### **FEATURES**

- May Contribute to LEED credits
- VOC Compliant in All Regions
- Ultra UV Stable, Non-yellowing
- Attractive Gloss Finish
- Cures/Seals/Dustproofs New Concrete
- Low Odor
- Non-Flammable
- Safe to Use & Store
- Meets ASTM C309

#### **PROPERTIES**

ASTM C309, Type 1 Classes A & B AASHTO M-148, Type 1, Classes A & B

Note: Federal Specification TT-C-800A was cancelled and officially replaced by ASTM C-309.

Moisture Retention: ASTM C156: <0.55 kg/sq m in 72 hours

Dry Time: Approximately 2-3 hours at 70°F (21°C) for recoating or light traffic. Wait 12 hours for heavy traffic. Dry time is temperature, wind and humidity dependent.

#### VOC:

Actual VOC = 93 g/L. Compliant with all US VOC regulations for Concrete Curing Compounds including Federal EPA, OTC, LADCO, SCAQMD & CARB.

#### **ESTIMATING GUIDE**

	Sq. Ft./Gallon	Sq M/Liter
Curing:	200	4.9
Second Coat:	400-600	9.8-14.7
Texture and absor	rption of surface will in	fluence final coverage
rates.		

#### **PACKAGING**

ITEM #	PACKAGE	SIZE	
		Gallons	Liters
309242	Pail	5	18.93
309243	Drum	55	208.20

#### **STORAGE**

The Cure & Seal 309 EF should be stored in tightly sealed original factory containers. Store in a horizontal position to prevent moisture accumulation on the drum head. Do not allow to freeze. Shelf life of properly stored, unopened containers is 18 months.

#### **APPLICATION**

Mixing: Stir thoroughly prior to use. Do not thin or dilute

**Placement:** Apply Cure & Seal 309 EF immediately after all surface water has disappeared and surface cannot be marred. Application of Cure & Seal 309 EF too early or too late can affect the overall curing performance. Use low pressure spray, roller or brush. Apply uniformly without puddles. Multiple thin coats are preferable over heavy coats. Application of a second coat, after the 1st coat has dried will provide a longer lasting, higher gloss film with improved water retention properties. For improved application consistency and reduction in labor, use the Dayton Spray-Pro (Item # 309233 or 309232) power spray system.

#### **CLEAN UP**

Clean tools and equipment with clean water while product is still wet. Dried material may be removed with Green Bean Clean.

#### **LIMITATIONS**

#### FOR PROFESSIONAL USE ONLY

This product should not be used at temperatures below  $40^{\circ}$ F ( $4^{\circ}$ C).

Do not apply concrete or mortar toppings over sealed surfaces.

Avoid spraying Cure & Seal 309 EF into joint prior to installation of sealant.

May show rubber tire marks.

Do not use high speed mixing equipment.

Remove Cure & Seal 309 EF with Citrus Cleaner J48 or Green Bean Clean® before applying resinous (epoxy, polyester, urethanes, etc.) coatings



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#### **Earth Friendly Cure & Seal**

## PRECAUTIONS READ MSDS PRIOR TO USING PRODUCT

- Use with adequate ventilation
- Wear protective clothing, gloves and eye protection (Goggles, Safety Glasses and/or Face Shield)
- Keep out of the reach of children
- Do not take internally
- In case of ingestion, seek medical help immediately
- May cause skin irritation upon contact, especially prolonged or repeated. If skin contact occurs, wash immediately with soap and water and seek medical help as needed
- If eye contact occurs, flush immediately with clean water and seek medical help as needed
- Dispose of waste material in accordance with federal, state and local requirements

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Dayton shall not be liable in contract or in tort (including, without limitation, negligence, strict liability or otherwise) for loss of sales, revenues or profits; cost of capital or funds; business interruption or cost of downtime, loss of use, damage to or loss of use of other property (real or personal); failure to realize expected savings; frustration of economic or business expectations; claims by third parties (other than for bodily injury), or economic losses of any kind; or for any special, incidental, indirect, consequential, punitive or exemplary damages arising in any way out of the performance of, or failure to perform, its obligations under any contract for sale of product, even if Dayton could foresee or has been advised of the possibility of such damages. The Parties expressly agree that these limitations on damages are allocations of risk constituting, in part, the consideration for this contract, and also that such limitations shall survive the determination of any court of competent jurisdiction that any remedy provided in these terms or available at law fails of its essential purpose.





#### **TECHNICAL DATA SHEET**

#### **DESCRIPTION**

Ultra Seal EF is an Earth Friendly (EF) acrylic, non-yellowing concrete sealer that may contribute to LEED Credits. The Ultra Seal EF formula is low odor and contains VOC < 100 g/L, making it VOC compliant in all areas. The Ultra Seal EF is designed to seal, protect and add an attractive gloss to existing concrete and decorative concrete surfaces. Ultra Seal EF is blush resistant and has good resistance to common chemicals such as motor oil, antifreeze, vinegar and bleach.

#### **USE**

Ultra Seal EF can be used on all existing concrete and decorative concrete surfaces where a glossy, film forming sealer is desired. Ultra Seal EF is non-yellowing making it suitable for both interior and exterior applications. This ultra low VOC sealer can be used in all VOC restricted areas in the United States and Canada.

#### **FEATURES**

- May Contribute to LEED Credits
- Earth Friendly (EF)
- VOC Compliant in All Regions
- Resists Blushing, Hazing or Whitening
- Ultra UV Stable, Non-yellowing
- Attractive Gloss Finish
- High End Decorative Appearance
- Low Odor
- Excellent Weatherability
- Easy Spray/Roll Application
- Non-Flammable
- Safe to Use & Store

#### **PROPERTIES**

Dry Time: Approximately 2-3 hours @ 70°F (21°C) for recoating or light foot traffic. Wait 12 hours for heavy traffic. Dry time is temperature, humidity and wind dependent

Moisture Vapor Transmission, ASTM D1653 A: 40 g/sq m /24 hours

Accelerated Weathering: ASTM G53: Non-Yellowing after 4000 Hours QUV

#### **CHEMICAL RESISTANCE**

Results based upon lab testing for splash, spillage and intermittent contact. Clean up all contaminants as soon as possible to avoid staining. A mock up sample is recommended to determine suitability of resistance for any particular application.

#### **REAGENT - Stain Resistance (One Hour Exposure)**

Ketchup	Excellent (no effect)
Mustard	Excellent (no effect)
"Kool-Aid"	Excellent (no effect)
Grape Juice	Excellent (no effect)
Coffee	Excellent (no effect)
Chocolate Syrup	Excellent (no effect)

Tincture of Iodine Poor Coal Tar Poor

#### Chemical Resistance - (One Hour Exposure with no Evaporation)

Used Motor Oil	Excellent (no effect)
DI Water	Excellent (no effect)
10% Sodium Hydroxide	Excellent (no effect)
10% Sodium Chloride	Excellent (no effect)
10% Calcium Chloride	Excellent (no effect)
3% Trisodium Phosphate	Excellent (no effect)
10% Ammonia	Excellent (no effect)
400/ 11 1 11 1 4 11	<b>-</b> ·

10% Hydrochloric AcidFairBrake FluidPoor100 proof alcoholPoorGasolinePoorSkydrolPoor

#### COLOR:

Milky white liquid that dries clear.

#### VOC

Actual VOC = 95 g/L. Compliant with all US VOC regulations for sealers including Federal EPA, OTC, LADCO, SCAQMD & CARB.

#### **ESTIMATING GUIDE**

200 - 300 sq. ft./gallon (4.9-7.4 sq m/L) per application, 2 applications recommended.

#### **PACKAGING**

ITEM #	PACKAGE	SIZE	
		Gallons	Liters
309249	Jug (36 min.)	1	3.79
308690	Pail	5	18.93
308691	Drum	55	208.20



LEED / Green

#### Earth Friendly Concrete Sealer

#### **STORAGE**

KEEP FROM FREEZING. Shelf life is 18 months from date of manufacture in original unopened containers.

#### **APPLICATION**

**Surface Preparation:** Substrates should be clean, free of all debris and contaminates and thoroughly dry. Newly placed concrete, toppings or overlayments must be cured 24-48 hours from time of completed installation, depending on ambient conditions, substrate and mix design. Longer curing times are required in cool, damp conditions. Concrete curing compounds, if used, must be removed prior to application of sealer. Extremely slick, dense substrates may require abrasion prior to application to achieve adequate adhesion of sealer.

**Mixing:** Ultra Seal EF should be thoroughly mixed prior to application. Do not thin or dilute.

Placement: Apply the Ultra Seal EF by brush, roller or spray. For improved application consistency and reduction in labor, use the Dayton Spray-Pro (Item # 309233 or 309232) power spray system. Uniformly apply the Ultra Seal EF at 200 -300 sq. ft./gallon (4.9- 7.4 sq m/L) per application. Allow the Ultra Seal EF to dry then uniformly apply a second coat of sealer at the same coverage rate. Ensure application is uniform and a complete film over the entire surface has been achieved. Do not apply the sealer applications too heavy or too light per coat. Light coats do not form a complete film, while heavy coats will extend the dry time and could discolor or peel. In general, two light mist coats are more effective than one heavy single coat. Re-application can take place as soon as the previous coat has dried. Protect the application from rain, snow or excessive moisture for 24 hours.

#### **CLEAN UP**

Clean tools, equipment and wet material with clean water. Dried material may be removed with Dayton Superior's Green Bean Clean.

## LIMITATIONS FOR PROFESSIONAL USE ONLY

Minimum ambient and surface temperature for application is 45°F (7.2°C) during application and for a minimum of 24 hours after application.

Do not apply if rain, snow or excessive moisture is expected during application or within 24 hours after application.

Do not use as a wear layer for heavy traffic areas as black tire marking and premature failure could occur.

Will interfere with the adhesion of sealants, thus avoid spraying Ultra Seal EF into a joint prior to installation of sealant.

Not for use under resinous (epoxy, polyester, urethane, etc.) coatings.



#### **PRECAUTIONS**

#### **READ MSDS PRIOR TO USING PRODUCT**

- Use with adequate ventilation
- Wear protective clothing, gloves and eye protection (Goggles, Safety Glasses and/or Face Shield)
- Keep out of the reach of children
- Do not take internally
- In case of ingestion, seek medical help immediately
- May cause skin irritation upon contact, especially prolonged or repeated. If skin contact occurs, wash immediately with soap and water and seek medical help as needed
- If eye contact occurs, flush immediately with clean water and seek medical help as needed
- Dispose of waste material in accordance with federal, state and local requirements

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Dayton shall not be liable in contract or in tort (including, without limitation, negligence, strict liability or otherwise) for loss of sales, revenues or profits; cost of capital or funds; business interruption or cost of downtime, loss of use, damage to or loss of use of other property (real or personal); failure to realize expected savings; frustration of economic or business expectations; claims by third parties (other than for bodily injury), or economic losses of any kind; or for any special, incidental, indirect, consequential, punitive or exemplary damages arising in any way out of the performance of, or failure to perform, its obligations under any contract for sale of product, even if Dayton could foresee or has been advised of the possibility of such damages. The Parties expressly agree that these limitations on damages are allocations of risk constituting, in part, the consideration for this contract, and also that such limitations shall survive the determination of any court of competent jurisdiction that any remedy provided in these terms or available at law fails of its essential purpose.



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