

SECTION 4

Cures & Seals

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TECHNICAL DATA SHEET

Unlike cures, cure & seals are the 'long distance runner'. They are formulated to last longer and not break down as quickly as the cures. Different resins are used to accomplish this.

Applied to the fresh concrete immediately after the disappearance of the surface water sheen

ASTM Standard for curing & sealing compounds is ASTM C-1315 (max. water loss 0.40 kg/m² in 72 hrs. when applied @ 300 ft²/gal); Min. solids content of 25%

ASTM C-1315 is divided by Type and Class, but it is very different than ASTM C-309 for cures:

- Type: I (clear)
- Type: II (white pigmented)
- Class: 'A' are non-yellowing
- Class: 'B' may have moderate yellowing
- Class: 'C' may undergo severe darkening & has no requirement relative to yellowing

ACI 308 Guide to Concrete Curing recommends a cure & seal meeting ASTM C-1315, Type I, Class A for curing colored concrete floors and slabs. They also note that even non-yellowing compounds will discolor over time

In addition to the water loss, reflectance & dry time tests that ASTM C-309 requires, C-1315 also requires UV testing, acid/alkali resistance testing & adhesion of tile cements testing

If any finish flooring system is to be installed over a cure & seal, it is recommended to ALWAYS test the mastic/adhesive to be used on the job with the cure/seal to be assured of compatibility.

Meeting ASTM C-1315 does not assure compatibility between all mastics / adhesives and the curing & sealing membrane in question.

ASTM C-309 & C-1315 VS. ACI 308

While ASTM C-309 and C-1315 address just liquid membrane-forming curing and curing/sealing compounds, ACI 308 addresses the whole picture. ACI 308, the "Guide to Curing Concrete", addresses all acceptable methods of curing including water, plastic film, reinforced paper as well as liquid membrane-forming compounds. The use of ACI 308, rather than the ASTM C-309, allows the constructor to use the appropriate method of curing based upon the floor finish and the environmental conditions

COLD WEATHER 'ALERT':

Colder weather does not lessen the importance of proper curing techniques and materials. Cold weather requires the same, if not more, urgency for curing than in the summertime. "Even when the relative humidity of the outdoor air is high, at low temperatures this translates to very low quantities of water vapor. Cold air is therefore generally dry, even at high humidity"¹. Remember, it is in the cold weather that you use the lip balm to prevent chapped lips....cold weather & low humidity dries lips. Concrete, in the cold weather and low humidity, also undergoes a loss of moisture & thus the need for proper curing techniques to prevent the loss of water that could cause distress, deterioration and esthetic problems.

¹"Avoiding Injury in Cold Weather: For Humans and for Recently-Cast Concrete" Kenneth C. Hover, Concrete International, Nov. 2000

DAYTON SUPERIOR CURE & SEALS

Cure & Seal 309 J18 - ASTM C-309, AASHTO M-148 Type I, Classes A & B

Cure & Seal 1315 J-22WB - ASTM C-309, AASHTO M-148 Type I, Classes A & B, and ASTM C-1315, Type I, Class A

Cure & Seal LV 25% J20UV - ASTM C-309, AASHTO M-148 Type I, Classes A & B

Cure & Seal 25% J22 UV - ASTM C-309, AASHTO M-148 Type I, Classes A & B and ASTM C-1315, Type I, Class A

Cure & Seal 30% J23 UV - ASTM C-309, AASHTO M-148 Type I, Classes A & B

***Cure & Seal 309 EF** - ASTM C-309, AASHTO M-148 Type I, Classes A & B

***Cure & Seal 1315 EF** - ASTM C-309, AASHTO M-148 Type I, Classes A & B, and ASTM C-1315, Type I, Class A

* EARTH FRIENDLY PRODUCTS:

- Are Bio-based
- V.O.C. of less than 100 g/L
- High performance
- Contribute to LEED EQ credit 4.2

*** BIO-BASED:**

Are high performance products primarily made from sustainable green ingredients that are more environmentally friendly than conventional solvent-based technologies or older water-based technologies.

TECHNICAL DATA SHEET

DESCRIPTION

Cure & Seal 25% J22UV is an acrylic copolymer cure, seal and dustproofing compound in an aromatic solvent containing 25% solids with special U.V. stabilizers. The higher acrylic solids content will form an excellent surface coating with a high gloss finish and will provide an outstanding cure performance. Cure & Seal 25% J22UV is ultraviolet light stable and resists yellowing.

USE

Cure & Seal 25% J22UV provides a combination curing, sealing and dustproofing for freshly finished concrete surfaces. It meets the ASTM C-309 & ASTM C-1315 specifications as an outstanding curing compound and is an excellent dustproof and surface sealer.

FEATURES

- High Solids content
- Cures (Meets ASTM C-309)
- Cure & Seals (Meets ASTM C-1315)
- Dustproofs
- Forms a Clear Film
- U.V. Stable, Resists Yellowing

PROPERTIES

ASTM C-309, Type 1, Classes A & B

ASTM C-1315, Type 1, Class A

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

USDA Accepted for Incidental Food Contact

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

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

VOC:

Complies with U.S. EPA requirement with less than 700 g/L

ESTIMATING GUIDE

Coverage:

	Sq. Ft./Gallon	Sq M/ Liter
Curing	200 – 400	4.9 – 9.8
Second Coat	400 – 600	9.8 – 14.7

Texture and absorption of surface will influence final coverage rates.

PACKAGING

ITEM #	PACKAGE	SIZE	
		Gallons	Liters
69445	Pail	5	18.93
69444	Drum	55	208.20

STORAGE

Cure & Seal 25% J22UV should be stored in tightly sealed original factory containers. Store in a horizontal position to prevent moisture accumulation on the drum head. Shelf life of properly stored, unopened containers is 24 months.

APPLICATION

Placement: Apply Cure & Seal 25% J22UV immediately after all surface water has disappeared and the surface cannot be marred. Application of Cure & Seal 25% J22UV too early or too late can affect the overall curing performance. Use low pressure spray, roller or brush. Make sure that the sprayer, as well as any other equipment that the material will come into contact with is clean and dry. Do not contaminate the Cure & Seal 25% J22UV with other materials, solvents, or water. Do not thin. Apply uniformly without puddles.

CLEAN UP

Tools & Equipment use: Clean tools and equipment with Xylol or lacquer thinner while product is still wet. Dried material may be removed with Green Bean Clean.

LIMITATIONS

FOR PROFESSIONAL USE ONLY

For applications of a cure and seal in an enclosed structure, Dayton Superior recommends a water based product like the Cure & Seal 309 EF or Cure & Seal 1315 EF.

Do not apply at temperatures below 40°F (4°C) or when the average daily temperature remains below 40°F (4°C).

Sprayers and equipment must have suitable type solvent-resistant hoses and gaskets.

Do not apply concrete or mortar toppings over sealed surfaces.

Remove Cure & Seal 25% J22UV with Citrus Cleaner J48 or Green Bean Clean® before applying resinous (epoxy, polyester, urethanes, etc.) coatings.

Do not store food containers directly on the floor, always place on pallets.

Solvent Based Cure & Seal

PRECAUTIONS

READ MSDS PRIOR TO USING PRODUCT

- Keep material and containers away from high heat, open flames, sparks or other sources of ignition
- 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, determines that the product breached the above warranty, it will, 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 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.

TECHNICAL DATA SHEET

DESCRIPTION

Cure & Seal 30% J23UV is an 30% solids acrylic copolymer cure, seal and dustproofing compound in an aromatic solvent containing special U.V. stabilizers . The higher acrylic solids content will form an excellent surface coating with a high gloss finish and will provide an outstanding cure performance.

USE

The Cure & Seal 30% J23UV provides a combination curing, sealing and dustproofing for freshly finished interior or exterior concrete surfaces. It meets the ASTM C-309 specifications as an outstanding curing compound and is an excellent dustproof and surface sealer.

FEATURES

- High Solids content
- Cures (Meets ASTM C-309)
- Seals and Protects Concrete
- Dustproofs
- Forms a Clear Film
- U.V. Stable, Resists Yellowing

PROPERTIES

ASTM C-309, Type 1, Classes A & B
 AASHTO M-148, Type 1, Classes A & B
 USDA Approved for Incidental Food Contact

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

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

VOC:

Complies with U.S. EPA requirement with less than 700 g/L

ESTIMATING GUIDE

Coverage:

	Sq. Ft./Gallon	Sq M/Liter
Curing	200 – 400	4.9 – 9.8
Second Coat	400 – 600	9.8 – 14.7

Texture and absorption of surface will influence final coverage rates.

PACKAGING

ITEM #	PACKAGE	SIZE	
		Gallons	Liters
69407	Pail	5	18.93
69409	Drum	55	208.20

STORAGE

The Cure & Seal 30% J23UV should be stored in tightly sealed original factory containers. Store in a horizontal position to prevent moisture accumulation on the drum head. Shelf life of properly stored, unopened containers is 24 months.

APPLICATION

Placement: Apply Cure & Seal 30% J23UV immediately after all surface water has disappeared and the surface cannot be marred. Application of Cure & Seal 30% J23UV too early or too late can affect the overall curing performance. Use low pressure spray, roller or brush. Make sure that the sprayer, as well as any other equipment that the material will come into contact with is clean and dry. Do not contaminate the Cure & Seal 30% J23UV with other materials, solvents, or water. Do not thin. Apply uniformly without puddles.

CLEAN UP

Tools & Equipment use: Clean tools and equipment with Xylol or lacquer thinner while product is still wet. Dried material may be removed with Green Bean Clean.

LIMITATIONS

FOR PROFESSIONAL USE ONLY

For applications of a cure and seal in an enclosed structure, Dayton Superior recommends a water based product like the Cure & Seal 309 EF or Cure & Seal 1315 EF.

Do not apply at temperatures below 40°F (4°C) or when the average daily temperature remains below 40°F (4°C).

Sprayers and equipment must have suitable type solvent-resistant hoses and gaskets.

Do not apply concrete or mortar toppings over sealed surfaces.

Remove Cure & Seal 30% J23UV with Citrus Cleaner J48 or Green Bean Clean before applying resinous (epoxy, polyester, urethanes, etc.) coatings.

Do not store food containers directly on the floor, always place on pallets.

Solvent Based Cure & Seal

PRECAUTIONS

READ MSDS PRIOR TO USING PRODUCT

- Keep material and containers away from high heat, open flames, sparks or other sources of ignition
- 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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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, determines that the product breached the above warranty, it will, 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 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.

TECHNICAL DATA SHEET

DESCRIPTION

Cure & Seal LV 25% J20UV is an acrylic copolymer cure, seal and dustproofing compound in an aromatic solvent containing 25% solids. It is designed for ease of application and better atomization when spraying in a wide temperature range from 35°F to 90°F (2°C to 32°C). Cure & Seal LV 25% J20UV will be ultraviolet stable and resist yellowing. The higher acrylic solids content will form an excellent surface coating with a high gloss finish that provides an outstanding cure performance.

USE

Cure & Seal LV 25% J20UV provides a combination of curing, sealing and dustproofing for freshly finished interior or exterior concrete surfaces. It meets ASTM C-309 specifications as an outstanding curing compound and is an excellent dustproofing and surface sealer. Cure & Seal LV 25% J20UV will resist many chemicals, help protect against staining and allows easy removal of mortar splatters.

FEATURES

- Sprays Well in Warm & Cool Temperatures
- U.V. Stable, Resists Yellowing
- Cures (Meets ASTM C-309)
- Seals and Protects Concrete
- Dustproofs

PROPERTIES

ASTM C-309, 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

Drying Time: Approx. 2 hours at 70°F (21°C) for re-coating or light traffic.

Wait 12 hours for heavy traffic. Dry time is temperature, humidity and wind dependent

VOC:

Complies with U.S. EPA requirement with less than 700 g/L

ESTIMATING GUIDE

Coverage:

	Sq. Ft. /Gallon	Sq M /Liter
Curing	200 – 400	4.9 – 9.8
Second Coat	400 – 600	9.8 – 14.7

Texture and absorption of surface will influence final coverage rates.

PACKAGING

ITEM #	PACKAGE	SIZE	
		Gallons	Liters
280846	Pail	5	18.93
202516	Drum	55	208.20

STORAGE

The Cure & Seal LV 25% J20UV should be stored in tightly sealed original factory containers. Store in a horizontal position to prevent moisture accumulation on the drum head. Shelf life of properly stored, unopened containers is 24 months.

APPLICATION

Placement: Apply Cure & Seal LV 25% J20UV immediately after all surface water has disappeared and the surface cannot be marred. Application of Cure & Seal LV 25% J20UV too early or too late can affect the overall curing performance. Use low pressure spray, roller or brush. Make sure that the sprayer, as well as any other equipment the material will come in contact with, is clean and dry. Do not contaminate Cure & Seal LV 25% J20UV with other materials, solvents or water. Do not thin. Apply uniformly without puddles.

CLEAN UP

Tools & Equipment use: Xylol or lacquer thinner. For dried material remove with Dayton Green Bean Clean.

LIMITATIONS

FOR PROFESSIONAL USE ONLY

For applications of a cure and seal in an enclosed structure, Dayton Superior recommends a water based product like the Cure & Seal 309 EF or Cure & Seal 1315 EF.

Sprayers and equipment must have suitable type solvent-resistant hoses and gaskets.

Do not apply concrete or mortar toppings over sealed surfaces.

Remove Cure & Seal LV 25% J20UV with Citrus Cleaner J48 or Green Bean® Clean. before applying resinous (epoxy, polyester, urethanes, etc.) coatings.

Do not store food containers directly on the floor, always place on pallets.

Solvent Based Cure & Seal

PRECAUTIONS

READ MSDS PRIOR TO USING PRODUCT

- Keep material and containers away from high heat, open flames, sparks or other sources of ignition
- 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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WARRANTY

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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

Cure & Seal 1315 J22WB is a water based acrylic copolymer containing 25% solids that offers outstanding curing, sealing and dustproofing for freshly finished concrete surfaces. The high solids content will form a long lasting surface membrane with a high gloss finish that will provide excellent cure performance. This product dries to produce a non-yellowing, durable, clear film on concrete. Cure & Seal 1315 J22WB is ideal for interior applications because it is free of noxious fumes and it is non-flammable.

USE

Cure & Seal 1315 J22WB is a convenient, safe to use product that surpasses the ASTM C-309 & ASTM C 1315 specifications as a superb membrane forming curing compound and it is an excellent dustproofer and surface sealer.

FEATURES

- Water Based
- High Solids Content
- High Gloss Sealer & Dustproofer
- Low Odor, Ideal for Interior Applications
- Non-flammable
- Easy Clean Up with Water
- Interior/Exterior

PROPERTIES

ASTM C-309, Type 1, Class A & B
 AASHTO M-148, Type 1, Class A & B
 ASTM C-1315, Type 1, Class A

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:

Less than 350 g/l. Complies with Federal EPA, OTC & LADCO Standards for Concrete Curing Compounds

ESTIMATING GUIDE

Coverage:

	Sq. Ft./Gallon	Sq M/ Liter
Curing:	200-400	4.9-9.8
Second Coat:	400-600	9.8-14.7

Texture and absorption of surface will influence final coverage rates.

PACKAGING

ITEM #	PACKAGE	SIZE	
		Gallons	Liters
307919	Pail	5	18.93
307918	Drum	55	208.20

STORAGE

The Cure & Seal 1315 J22WB 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: Agitate Cure & Seal 1315 J22WB before each use.

Application: Apply when all free water has disappeared and surface cannot be marred. Do not delay in applying Cure & Seal 1315 J22WB. Use low-pressure spray, roller or brush. Do not thin. Apply uniformly without puddles. For improved application consistency and reduction in labor use the Dayton Spray-Pro (Item # 309233 or 309232) power spray system. The second coat, which is optional, will provide a longer lasting surface coating with a higher gloss finish.

CLEAN UP

For cleaning tools and equipment use warm soapy water before the product dries. For removal of dried product, use the Dayton Superior Green Bean Clean.

LIMITATIONS

FOR PROFESSIONAL USE ONLY

This product should not be used at temperatures below 40°F (4°C).

Do not apply concrete or mortar toppings over sealed surfaces.

Avoid spraying Cure & Seal 1315 J22WB into joint prior to installation of sealant.

May show rubber tire marks.

Water Based Cure & Seal

Do not use high speed mixing equipment.

Remove Cure & Seal 1315 J22WB with Citrus Cleaner J48 or Green Bean Clean® before applying resinous (epoxy, polyester, urethanes, etc.) coatings.

Do not store food containers directly on the floor, always place on pallets.

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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Website: www.daytonsuperior.com

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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

Cure & Seal 309 J18 is a water based acrylic copolymer that offers a combination curing, sealing and dustproofing for freshly finished concrete surfaces. This product dries to produce a non-yellowing, durable, clear film on concrete. Cure & Seal 309 J18 is ideal for interior applications because it is free of noxious flammable fumes.

USE

Cure & Seal 309 J18 is a convenient, safe-to-use product that meets the ASTM C-309 standard as an effective membrane curing compound and is an excellent dustproofer and surface sealer. It is designed for interior and exterior use.

FEATURES

- Water based
- Meets ASTM C-309 Specs as an effective curing compound
- Excellent sealer & dustproofer
- Low odor
- Non-Flammable
- Easy clean-up with water
- Interior/exterior applications

PROPERTIES

ASTM C-309, 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

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

VOC:

Less than 350 g/l. Complies with Federal EPA ,OTC & LADCO Standards for Concrete Curing Compounds

ESTIMATING GUIDE

Coverage Rates:

	Sq. Ft./Gallon	Sq M/ Liter
Curing	200	4.9
Second Coat	400 – 600	9.8 – 14.7

Texture and absorption of surface will influence final coverage rates.

PACKAGING

ITEM #	PACKAGE	SIZE	
		Gallons	Liters
69223	Pail	5	18.93
69221	Drum	55	208.20

STORAGE

The Cure & Seal 309 J18 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: Agitate Cure & Seal 309 J18 before each use.

Placement: Apply Cure & Seal 309 J18 immediately after all surface water has disappeared and the surface cannot be marred. Application of Cure & Seal 309 J18 too early or too late can affect the overall curing performance. Use low pressure spray, roller or brush. Do not thin. Apply uniformly without puddles. 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 first coat has dried, will provide a longer lasting, higher gloss coating with improved water retention performance.

CLEAN UP

Tools and equipment can be cleaned with warm, soapy water before the product dries. For removal of dried product, use Dayton Superior Green Bean Clean.

LIMITATIONS

FOR PROFESSIONAL USE ONLY

This product should not be used at temperatures below 40°F (4°C).

Do not apply concrete or mortar toppings over sealed surfaces.

Avoid spraying Cure & Seal 309 J18 into joint prior to installation of sealant.

May show rubber tire marks.

Do not use high speed mixing equipment.

Remove Cure & Seal 309 J18 with Citrus Cleaner J48 or Green Bean Clean® before applying resinous (epoxy, polyester, urethanes, etc.) coatings.

Do not store food containers directly on the floor, always place on pallets.

Water Based 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

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, determines that the product breached the above warranty, it will, 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 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.

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	9.8 --14.7

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°F (4°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.

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

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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, determines that the product breached the above warranty, it will, 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 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.

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 absorption of surface will influence 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°F (4°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



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)
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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.