

SECTION 5

Curing Compounds

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TECHNICAL DATA SHEET

The term "Curing" can be used to describe the process by which hydraulic-cement concrete matures and develops hardened properties, over time, as a result of the continued hydration of the cement in the presence of sufficient water and heat. The term "Curing" is also used to describe action taken to maintain moisture and temperature conditions in a freshly placed concrete so that the potential properties of the concrete may develop (ACI).

If concrete is not cured, its strength can be reduced by up to 40% and can result in surface cracking, curling, crazing, and dusting.

It is very important to cure the concrete immediately after finishing. Don't wait!

Wet burlap, water spray and plastic sheets are effective methods of curing only if the concrete is kept constantly damp for 7 days. Otherwise, membrane-applied curing compounds are preferred.

The main performance specification for curing compounds: ASTM C-309 Liquid Membrane – Forming Compounds for Curing Concrete. The curing compound shall not allow the concrete specimen to lose more than .55kg /m² of water in 72 hours. The white pigmented compound shall exhibit a reflectance of at least 60% of that of a standard magnesium oxide reference plate.

Types of curing compounds:

- Type 1 Clear of translucent without dye.
- Type 1D Clear or translucent with fugitive dye.
- Type 2 White pigmented.

The curing compound shall also be one of the following classes:

Class A – no restrictions on the vehicle solids material in the curing compound – typically, wax based materials.

Class B – the vehicle solids material in the curing compound must be all resin.

According to the ASTM Committee on Curing, no sodium silicate curing compound will meet the ASTM C-309 specifications.

Water based products should be agitated or stirred before use to bring the solids back into suspension. However, do not over agitate them or use high speed mixing equipment.

Always apply the curing compound uniformly at the specified application rate (typically 200 ft²/gallon, 4.9 m²/L). A major problem on most jobsites is the spraying of the curing compounds at extremely high application rates, i.e., the material is applied at 300-400 ft²/gallon, rather than 200 ft²/gallon. As

a result, the quality of the concrete goes down dramatically! A good rule of thumb on flatwork is to apply the curing compound heavy enough to create a slight flood of material on the concrete surface or, as another option, apply the curing compound in two applications, one at right angles to the other.

Curing compounds will have to be removed before application of a liquid hardener, a sealer like an epoxy or urethane, or a water repellent like a silane or siloxane.

Resin based curing compounds (i.e., Dayton Superior J11W) will normally oxidize and begin to wear off in 30 to 60 days. However, this process depends on the amount of sunlight and traffic the curing compound receives. Additional cleaning of the surface by high pressure water blasting (2000 psi, 13.8 MPa), light sand blasting, or chemical removal may be necessary, if the curing compound was protected from the sunlight and did not oxidize thoroughly. A good test to see if the curing compound has been removed is to place a few drops of water on the surface and see if the water is readily absorbed into the concrete. If it is readily absorbed, then additional cleaning may not be necessary.

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. 200

DAYTON SUPERIOR CURING MEMBRANES

RESIN:	
Clear Resin Cure J11W	ASTM Type I, Classes A & B
Resin Cure with Dye J11WD	ASTM Type ID, Classes A & B
White Resin Cure J10W	ASTM Type II, Classes A & B
WAX:	
City White Cure J8	
White Wax Cure J9A	ASTM Type 2, Class A
White Wax Cure CRD300	ASTM 2, Class A, CRD C-300

TECHNICAL DATA SHEET

DESCRIPTION

Clear Resin Cure J11W is an all resin, dissipating water-based curing compound.

USE

A ready-to-use dissipating water-based resin curing compound for use on freshly finished horizontal and vertical concrete surfaces. Clear Resin Cure J11W is formulated to provide an effective curing membrane that will begin to dissipate after exposure to sunlight, weathering and/or traffic.

FEATURES

- Water based
- Meets ASTM C-309
- Approved by numerous state highway departments
- Clean-up with water
- Dissipating Resin Cure

PROPERTIES

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

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

Meets ASTM C-309 requirement on moisture loss: <.55 kg/m²
Dry Time: Approximately 2 hrs. at 70° F. (21°C)

VOC:

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

For areas in California governed by SCAQMD this product can be used FOR ROADWAYS AND BRIDGES ONLY (Not for Use on Curbs and Gutters, Sidewalks, Islands, Driveways and Other Miscellaneous Concrete Areas)

ESTIMATING GUIDE

Coverage Rates:

200 ft²/gal.(4.9 m²/L) on exterior broom finished concrete

400 ft²/gal. (9.8 m²/L) on steel troweled, tightly finished concrete

PACKAGING

ITEM #	PACKAGE	SIZE	
		Gallons	Liters
69116	Pail	5	18.93
69115	Drum	55	208.20
280812	Tote	275	1040.99

STORAGE

The Clear Resin Cure J11W 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: The Clear Resin Cure J11W should be thoroughly stirred prior to each days use. Do not thin. Do not use high speed mixing equipment.

Placement: Apply immediately after all surface water has disappeared and the surface cannot be marred. Use low pressure spray, roller, or brush. For best results, a spray application is the preferred method. All application equipment and tools should be thoroughly cleaned prior to use to avoid contamination. Do not thin. Apply uniformly without puddling. DO NOT delay in applying the curing compound! For vertical applications, apply two light coats. Apply the second coat while the first coat is still wet. During vertical spray applications, use a fine spray tip and apply even coats avoiding run-downs or streaks.

Clear Resin Cure J11W will normally oxidize and begin to wear off within 30-60 days after application when exposed to traffic, sunlight and weathering; additional cleaning may be necessary to completely remove the film, particularly in areas of heavy application, those areas not exposed to sunlight or in vertical applications.

CLEAN UP

For tools and equipment use warm, soapy water. After the product dries, Dayton Superior Citrus Cleaner J-48 or organic solvents, such as xylene, may be necessary to remove the product.

LIMITATIONS

The Clear Resin Cure J11W should be thoroughly stirred prior to each days use.

Do not apply at temperature below 40°F (4°C). Cool, damp conditions and/or over application may extend drying and dissipation time.

If surface is to be painted, sealed, topped, or otherwise treated after application, residual membrane should be removed.

For professional use only.

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

Resin Cure with Dye J11WD is an all resin, dissipating water-based curing compound containing a fugitive dye.

USE

A ready-to-use dissipating water-based resin curing compound for use on freshly finished horizontal and vertical concrete surfaces. Resin Cure with Dye J11WD is formulated to provide an effective curing membrane that will begin to dissipate after exposure to sunlight, weathering and/or traffic.

FEATURES

- Water based
- Meets ASTM C-309
- Approved by numerous state highway departments
- Clean-up with water
- Dissipating Resin Cure
- Contains a red fugitive dye

PROPERTIES

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

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

Meets ASTM C-309 requirement on moisture loss: <.55 kg/m²

Dry Time: Approximately 2 hrs. at 70° F. (21°C)

VOC:

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

For areas in California governed by SCAQMD this product can be used FOR ROADWAYS AND BRIDGES ONLY (Not for Use on Curbs and Gutters, Sidewalks, Islands, Driveways and Other Miscellaneous Concrete Areas)

ESTIMATING GUIDE

Coverage Rates:

200 ft²/gal.(4.9 m²/L) on exterior broom finished concrete

400 ft²/gal. (9.8 m²/L) on steel troweled, tightly finished concrete

PACKAGING

ITEM #	PACKAGE	SIZE	
		Gallons	Liters
68929	Pail	5	18.93
68928	Drum	55	208.20
306199	Tote	275	1040.99

STORAGE

The Resin Cure with Dye J11WD 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: The Resin Cure with Dye J11WD should be thoroughly stirred prior to each days use. Do not thin. Do not use high speed mixing equipment.

Placement: Apply immediately after all surface water has disappeared and the surface cannot be marred. Use low pressure spray, roller, or brush. For best results, a spray application is the preferred method. All application equipment and tools should be thoroughly cleaned prior to use to avoid contamination. Do not thin. Apply uniformly without puddling. DO NOT delay in applying the curing compound! For vertical applications, apply two light coats. Apply the second coat while the first coat is still wet. During vertical spray applications, use a fine spray tip and apply even coats avoiding run-downs or streaks.

Resin Cure with Dye J11WD will normally oxidize and begin to wear off within 30-60 days after application when exposed to traffic, sunlight and weathering; additional cleaning may be necessary to completely remove the film, particularly in areas of heavy application, those areas not exposed to sunlight or in vertical applications.

CLEAN UP

For tools and equipment use warm, soapy water. After the product dries, Dayton Superior Citrus Cleaner J-48 or organic solvents, such as xylene, may be necessary to remove the product.

LIMITATIONS

The Resin Cure with Dye J11WD should be thoroughly stirred prior to each days use.

Do not apply at temperature below 40°F (4°C). Cool, damp conditions and/or over application may extend drying and dissipation time.

If surface is to be painted, sealed, topped, or otherwise treated after application, residual membrane should be removed.

For professional use only.

Concrete Curing Compound

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

A water-based, resin, liquid membrane forming curing compound for freshly finished concrete. The White Resin Cure J10W is white pigmented to reflect the heat of the sun.

USE

White Resin Cure J10W is a curing compound formulated to retain moisture in freshly finished concrete to insure full hydration of the cement. Specifically designed for use on exterior commercial projects such as highway pavements, residential paving, airport runways, parking lots and other pavement projects.

FEATURES

- Water-based
- Meets ASTM and AASHTO Standards
- Approved by numerous state highway departments
- Clean-Up with Water
- White pigments to reflect the heat of the sun

PROPERTIES

ASTM C-309 Type 2, Classes A & B

AASHTO M-148 Type 2, Classes A & B

Meets ASTM C-309 requirement on moisture loss: <.55 kg/m²
 Dry Time: Approximately 2 hrs. at 70° F (21°C)

VOC

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

For areas in California governed by SCAQMD this product can be used FOR ROADWAYS AND BRIDGES ONLY (Not for Use on Curbs and Gutters, Sidewalks, Islands, Driveways and Other Miscellaneous Concrete Areas)

ESTIMATING GUIDE

Coverage: 200 ft² per gal. (4.9m²/L)

PACKAGING

ITEM #	PACKAGE	SIZE	
		Gallons	Liters
69104	Pail	5	18.93
69103	Drum	55	208.20

STORAGE

The White Resin Cure J10W 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: White Resin Cure J10W should be thoroughly stirred prior to each days use. Do not over agitate or use high speed mixing equipment.

Placement: Apply immediately after all surface water has disappeared and the surface cannot be marred. Do not delay in applying the curing compound. Use low pressure spray, roller or brush. For best results, a spray application is the preferred method. All application equipment and tools should be thoroughly cleaned prior to use to avoid contamination. Do not thin. Apply uniformly without puddling. Do not interchange spray equipment that has been used with solvent based curing compounds with spray equipment that has been used with water based curing compounds without thorough cleaning.

CLEAN UP

Tools and Equipment: While wet use water.

After the product dries, Dayton Superior Citrus Cleaner J-48 or organic solvents such as xylene may be necessary to remove the product.

LIMITATIONS

The White Resin Cure J10W should be thoroughly stirred prior to each days use.

Do not apply at temperature below 40°F (4°C). Cool, damp conditions and/or over application may extend drying and dissipation time

If surface is to be painted, sealed, topped, or otherwise treated after application, residual membrane should be removed.

For professional use only.

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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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

Clear Cure VOC J7WB is a VOC compliant, water based clear resin dissipating curing compound. Clear Cure VOC J7WB is a true curing membrane meeting ASTM C309. Clear Cure VOC J7WB provides excellent curing properties for newly placed concrete and is easier to remove than most curing membranes from concrete once curing is completed.

USE

Clear Cure VOC J7WB is designed to be used on freshly finished concrete as a membrane forming curing compound for both horizontal/vertical surfaces as well as interior/exterior applications. Clear Cure VOC J7WB will, when properly applied, maintain moisture required for proper hydration of the cement.

FEATURES

- Meets ASTM C309
- VOC compliant in all areas
- May contribute to LEED credits
- Dissipation normally begins within 7-10 days
- Easier removal than most other membrane forming curing compounds
- Does not interfere with adhesion of subsequent surface treatments once removed

PROPERTIES

Meets: ASTM C-309, AASHTO M148 Type I, Class A & B

Drying time:

Approximately 4 hours at 70°F (21°C), when tested in accordance with ASTM C309. Dry time may be extended in cool and/or humid conditions.

VOC

Complies with all applicable VOC standards.
VOC < 100 g/L

Estimating Guide

200 ft²/gal. (4.9 M²/L) on exterior broom finished concrete
400 ft²/gal. (9.8 M²/L) on interior concrete or all smooth, tightly finished concrete.

Packaging

PRODUCT CODE	PACKAGE	SIZE	
		Gallons	Liters
143953	Pail	5	18.93
143954	Drum	55	208.20
143955	Tote	275	1040.99

STORAGE

Store in tightly sealed original factory containers. Prevent water and dirt accumulation from tops of containers. Keep from freezing. Shelf life in unopened containers is 18 months from date of manufacture.

Mixing:

Stir thoroughly prior to use. Do not thin.

Placement:

Apply immediately after all surface (bleed) water has disappeared and the surface cannot be marred. Do not delay in applying the curing compound! Spray application is recommended. Small areas may be roller or brush applied. Clear Cure VOC J7WB must be applied uniformly and at the recommended coverage rates. Spray equipment must be capable of atomizing the product into a fine spray mist. Use a fine spray tip and keep equipment under constant even pressure. Apply uniformly without puddling. For vertical applications, apply two light coats. Apply the second coat while the first coat is still wet. Apply even coats avoiding run-downs or streaks. Properly applied, Clear Cure VOC J7WB will normally begin to dissipate and wear off within 7-10 days after application. At this time product can be removed with water under pressure, using scrubbing equipment or with Dayton Superior Citrus Cleaner J48. The ease of cleaning or the amount of time required for full dissipation is dependent upon application rate, environmental conditions and the amount of sunlight and traffic wear the surface receives. Clear Cure VOC J7WB will dissipate indoors, however dissipation will be slower indoors than outdoors as UV light will accelerate dissipation. Failure to uniformly apply the material in the manner described above may result in longer dissipation times and be harder to remove. Failure to apply uniformly may also result in the concrete having a blotchy appearance due to uneven curing.

Dry time may be extended in cool and/or humid conditions, especially on interior applications. Applying too heavy of an application may result in material remaining tacky for an extended period of time.

APPEARANCE

Creamy Tan colored liquid. Dries from clear to white depending on application rate, timing and ambient conditions. May undergo color changes during dissipation. As dissipation occurs dust may be present on the surface. Concrete will be its natural color upon complete dissipation and removal of the Clear Cure VOC J7WB.

CLEAN UP

For tools and equipment use warm soapy water prior to the material drying. After the product dries, use of a Dayton Superior Citrus Cleaner J48 or organic solvent, such as xylene, may be necessary to remove the product.

TECHNICAL DATA SHEET

LIMITATIONS**FOR PROFESSIONAL USE ONLY**

If surface receiving the curing membrane is to receive subsequent surface treatment or flooring, surface should be checked to ensure complete dissipation has occurred. Any residual membrane should be removed. Always consult with manufacturer of subsequent treatment for any additional surface preparation they may require.

Do not apply at temperature below 40°F (4°C). Cool, damp conditions and/or over-application may extend drying and dissipation time. When moisture-sensitive flooring is to be applied to the concrete treated with this product first refer to ACI 302.2R

PRECAUTIONS**READ SDS 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
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Miamisburg, OH 45342
Customer Service: 888-977-9600
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Website: www.daytonsuperior.com

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

City White Cure J8 is an economical, V.O.C. compliant, water-based, white pigmented concrete curing compound.

USE

This membrane forming cure is designed especially for curing curbs, gutters, sidewalks and other similar exterior concrete projects.

FEATURES

- Water based
- V.O.C. compliant
- Clean-up with water
- White pigments to reflect the heat of the sun

PROPERTIES

Dry Time: Approximately 2 hours at 70°F (21°C).

VOC:

Less than 100 g/L. Compliant with all US VOC regulations for Concrete Curing Compounds including Federal EPA, OTC, LADCO, SCAQMD & CARB.

ESTIMATING GUIDE

Coverage Rate: 200 ft²/gal. (4.9 m²/L)

PACKAGING

ITEM #	PACKAGE	SIZE	
		Gallons	Liters
120902	Pail	5	18.93
120901	Drum	55	208.20
200396	Tote	275	1040.99

STORAGE

City White Cure J8 should be stored in tightly sealed original factory containers. Store in a horizontal position to prevent moisture accumulation on the drum head. Avoid prolonged exposure to sunlight and/or constant heat in excess of 100°F (37.8°C). Do not allow to freeze. Shelf life of properly stored, unopened containers is 12 months.

APPLICATION

Mixing: City White Cure J8 should be mildly agitated before use. Do not over agitate or use high speed mixing equipment.

Placement: Apply to freshly finished concrete as soon as such surfaces can be walked on without marring the surface and as soon as all free water on the surface has disappeared. Do not delay in applying the curing compound. Use low pressure spray, roller or brush. Do not thin. Apply uniformly without puddling. All application equipment and tools should be thoroughly cleaned prior to use to avoid contamination.

CLEAN UP

Tools and Equipment Use: While wet use water. After the product dries, the Dayton Superior Citrus Cleaner J48 or organic solvents such as xylene, may be necessary to remove the product.

LIMITATIONS

The City White Cure J8 should be thoroughly stirred prior to each days use.

City White Cure J8 should not be used on surfaces that will subsequently receive paint, tile, grout, sealers, or other coatings unless it is completely removed

Not recommended for interior use.

Do not apply at temperature below 40°F (4°C). Cool, damp conditions and/or over application may extend drying and dissipation time.

For professional use only.

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

A high solids, white pigmented, water-based wax concrete curing compound formulated to retain moisture in freshly finished concrete. The selected white pigments reflect the heat of the sun, keeping the concrete surface cooler. White Wax Cure CRD300 is a membrane forming wax based material that seals in the necessary moisture for proper cement hydration.

USE

Specially designed for use on exterior commercial projects, such as highways, airport runways, concrete lined canals, dams, parking lots, engineering projects and as specified.

FEATURES

- Reduces shrinkage; retains moisture to reduce "plastic shrinkage cracks"
- Enhances performance; increases the compressive strength over improperly cured concrete and adds a quality appearance
- Easy to spray
- V.O.C. Compliant
- High reflectivity
- Increases wear resistance

PROPERTIES

ASTM C-309, Type 2, Class A.
AASHTO-M-148, Type 2, Class A.
CRD C 300

Meets CRD C-300 requirement on moisture loss: <0.31 kg/m²
Dry Time: Approximately 2 hrs. at 70° F (21°C)

VOC

Less than 100 g/L. Compliant with all US VOC regulations for Concrete Curing Compounds including Federal EPA, OTC, LADCO, SCAQMD & CARB.

ESTIMATING GUIDE

Coverage: 200 ft² per gal. (4.9m²/L)

PACKAGING

ITEM #	PACKAGE	SIZE	
		Gallons	Liters
306537	Pail	5	18.93
306538	Drum	55	208.20
306539	Tote	275	1040.99

STORAGE

White Wax Cure CRD300 should be stored in tightly sealed original factory containers. Store in a horizontal position to prevent moisture accumulation on the drum head. Avoid prolonged exposure to sunlight and/or constant heat in excess of 100°F (37.8°C). Do not allow to freeze. Shelf life of properly stored, unopened containers is 12 months.

APPLICATION

Mixing: The White Wax Cure CRD300 should be thoroughly stirred prior to each days use. Do not thin. Do not use high speed mixing equipment.

Placement: Application equipment must be clean and free of foreign materials. Apply with brush, roller or sprayer. For best results, a spray application is the preferred method. All application equipment and tools should be thoroughly cleaned prior to use to avoid contamination. Application temperatures above 40°F(4°C) are recommended.

Areas that are to be caulked should be masked. Do not pond or puddle. Coverage will vary depending on the texture and porosity of the concrete. Apply at a rate of 200 ft²/gal. (4.9 m²/L) as soon as the surface moisture from the final trowel has disappeared.

CLEAN UP

Tools and Equipment should be flushed and cleaned with water immediately after use. Prior to use in sprayers with residue from previous products, remove all cured or residual material then thoroughly flush with water to remove all residue.

LIMITATIONS

Do not allow to freeze.

Do not mix or contaminate with solvent, diesel fuel or other thinning agents.

The White Wax Cure CRD300 should be thoroughly stirred prior to each days use.

Do not over agitate with compressed air or recirculating pump.

Do not apply at temperature below 40°F (4°C).

Cool, damp conditions and/or over application may extend drying and dissipation time

For professional use only.

Concrete Curing Compound

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

A water-based, wax, liquid membrane forming curing compound for freshly finished concrete. The White Wax Cure J9A is white pigmented to reflect the heat of the sun.

USE

White Wax Cure J9A is a curing compound formulated to retain moisture in freshly finished concrete to ensure full hydration of the cement. Specifically designed for use on exterior projects such as highway pavements, residential paving, airport runways, parking lots and other pavement projects.

FEATURES

- Water-based
- Meets ASTM and AASHTO Standards
- Approved by numerous state highway departments
- Clean-Up with Water
- White pigments to reflect the heat of the sun

PROPERTIES

ASTM C-309 Type 2, Class A

AASHTO M-148 Type 2, Class A

Meets ASTM C-309 requirement on moisture loss: <.55 kg/m²

Dry Time: Approximately 2 hrs. at 70° F (21°C)

VOC:

Less than 100 g/L. Compliant with all US VOC regulations for Concrete Curing Compounds including Federal EPA, OTC, LADCO, SCAQMD & CARB.

ESTIMATING GUIDE

Coverage: 200 ft² per gal. (4.9m²/L)

PACKAGING

ITEM #	PACKAGE	SIZE	
		Gallons	Liters
69165	Pail	5	18.93
69164	Drum	55	208.20
69144	Tote	275	1040.99

STORAGE

The White Wax Cure J9A should be stored in tightly sealed original factory containers. Store in a horizontal position to prevent moisture accumulation on the drum head. Avoid prolonged exposure to sunlight and/or constant heat in excess of 100°F (37.8°C). Do not allow to freeze. Shelf life of properly stored, unopened containers is 12 months.

APPLICATION

Mixing: White Wax Cure J9A should be thoroughly stirred prior to each days use. Do not over agitate or use high speed mixing equipment.

Placement: Apply immediately after all surface water has disappeared and the surface cannot be marred. DO NOT delay in applying the curing compound. Use low pressure spray, roller or brush. All application equipment and tools should be thoroughly cleaned prior to use to avoid contamination. For best results, a spray application is the preferred method. Do not thin. Apply uniformly without puddling.

CLEAN UP

Tools and Equipment: While wet use water.

After the product dries, Dayton Superior Citrus Cleaner J-48 or organic solvents such as xylene may be necessary to remove the product.

LIMITATIONS

The White Wax Cure J9A should be thoroughly stirred prior to each days use.

White Wax Cure J9A should not be used on surfaces that will subsequently receive paint, tile, grout, sealers, or other coatings unless it is completely removed

Not recommended for interior use.

Do not apply at temperature below 40°F (4°C). Cool, damp conditions and/or over application may extend drying and dissipation time.

For professional use only.

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Sec 5
Curing Compounds

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