

COLD WEATHER USE PRODUCTS

Chemicals specially formulated to work well in cold weather



REPAIR MATERIALS, EPOXY & POLYUREA

CM 2000, p/n 202538, 202544 & 305832

CM 2000 is an ultra low viscosity, two component, rapid cure and chemical resistant polyurea material for the repair of hairline cracks or deteriorated and spalled concrete. CM 2000 can be installed in temperatures as low as -40°F (-40°C). Available in a cream color.

JointFill, p/n 305788 & 305797

JointFill is a 100% solids, two component, self leveling aromatic polyurea joint filler having good flexibility and elongation, allowing 10–15% joint width movement. JointFill can be installed in temperatures as low as 15°F (-9°C). JointFill is a joint filler having a Shore A hardness of 75-80 and can be used in place of semi-rigid epoxy fillers.

Rapid Resin Repair, p/n 309087

Rapid Resin Repair is a 100% solids, low modulus, VOC compliant, three-component, all weather, non-shrinking epoxy/urethane hybrid concrete repair and patching material. Rapid Resin Repair utilizes 100% solids epoxy/urethane technology along with specialty graded aggregates for achieving rapid turn around concrete repairs in all weather conditions.

EPOXY ANCHORING GEL

Sure Anchor All Weather Epoxy (J-51 AW), p/n 308482

Two component 100% solid, moisture tolerant, all weather epoxy acrylate hybrid anchoring gel that meets ASTM C 881 specification requirements. Product is formulated to set up at room temperatures and down to temperatures of -15°F (-26°C).

REPAIR MATERIALS, CEMENT BASED

HD-50, p/n 67460

Specially formulated patching materials for concrete pavement repairs. Products set fast and develops high early strength. Usable in temperatures down to 32°F(0°C). Resistant to freeze-thaw cycles, salt and heavy traffic.

GROUTS, CEMENT BASED

Turbo Grout, p/n 308784

Designed for the grouting of base plates for wind turbine towers, machinery and equipment base plates, columns, crane rails, etc. Also ideal for use in grouting precast panels in cooler temperatures. An expansive cement based grout designed for use in cooler temperatures to provide faster set times and quicker strength gain than normal cement based non-shrink grouts. Ideal for use in cooler temperatures, as low as 35° F (2°C).

CURE & SEAL, SOLVENT BASED

General Purpose Cure & Seal (J-20), p/n 305407 & 305408 & General Purpose Cure & Seal UV (J-20UV), p/n 202516 & 280846

Acrylic copolymer cure, seal and dustproofing compound in an aromatic solvent containing 25% solids. 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). The higher acrylic solids content will form an excellent surface coating with a high gloss finish and will provide outstanding cure performance.

For Technical Data Sheets visit,
www.DaytonSuperior.com/ColdWeather

CM 2000™

ULTRA LOW VISCOSITY, RAPID CURING POLYUREA CONCRETE REPAIR

DESCRIPTION

CM 2000 is an ultra low viscosity, two component, rapid cure and chemical resistant polyurea material for the repair of hairline cracks or deteriorated and spalled concrete. CM 2000 can be installed in temperatures as low as -40°F (-40°C). Available in a cream color

PURPOSE

CM 2000 primary use is for the rapid repair of hairline cracks in horizontal concrete. CM 2000 can be used as a rapid set concrete repair mortar when mixed with clean silica sand and for rapid permanent repair of divots, spalls and damaged control joint nosings. CM 2000 penetrates into concrete and cracks creating a permanent bond and chemical resistant seal.

Typical areas of use include warehouse floors, cold storage and freezers, manufacturing facilities, industrial facilities, parking decks, bridge decks, water and waste water facilities, and in cold applications where time and temperature are of prime concern.

ADVANTAGES

- Cures at temperatures as low as -40°F (-40°C)
- Open to traffic in 15 minutes
- Ultra low viscosity, excellent penetration
- Chemical resistant
- Self leveling
- Excellent load transfer
- Available in bulk or cartridges
- 1:1 mix ratio

SPECIFICATIONS

Solids Content – 100%
Shore D Hardness – ASTM D-2240: 70
Elongation – ASTM D-412: 6%
Tensile Strength – ASTM D-412: 4,500 psi (31 MPa)
Compressive Strength – Neat-ASTM D-412: 3,800 psi (26.2 MPa); with sand: 4,610 psi (31.7 MPa)
Viscosity – 20 cps
V.O.C., A & B combined – 5.5 g/l
Shrinkage – none
Pot Life – 5 minutes @ 72°F (22°C)
Tack Free – 15 minutes @ 72°F (22°C)
Final Cure – 22 minutes @ 72°F (22°C)

APPLICATION INSTRUCTIONS

Installation of CM 2000 should not be performed until concrete is a minimum of 14 days old. All concrete must be dry for at least 5 days prior to the installation of CM 2000. Wet or moist concrete will cause outgassing, swelling and bubbling to occur. Damp areas must be primed with CM 2000 to react with and drive out any moisture. Damp areas for repair must be made dry as possible, then primed with neat (no sand) CM 2000 and given 10 minutes to cure prior to the overall installation of CM 2000. CM 2000 should not be used to fill contraction/control or expansion joints. The cured color of CM 2000 will be affected by the color of sand used.

Surface Preparation

All concrete to be repaired must be mechanically cleaned and roughened to insure proper bonding. All loose deteriorated concrete, dust, debris and contaminants must be completely removed prior to the installation of CM 2000.

Mixing

Bulk; small amounts (1 pint or less, 473 ml) of CM 2000 in bulk form can be hand mixed. Thoroughly mix both part A and B separately before combining. Mix both part A and B together for 30 seconds making sure the mixed color is uniform and free of streaking. Mix quickly and use immediately.

Cartridges should be vigorously shaken for approximately 2 minutes before using. Be careful not to displace or lose the black back flow restrictor packed with the cartridges. This must be fitted into the cartridge neck before placing the retaining nut and static mixing nozzle.

Spall and divot concrete repair using CM 2000 as a polymer mortar should be performed using bulk mixing. To make a mortar mix using CM 2000, use from 1.5 to 2 parts by volume of clean, dry quartz sand depending on the situation and flow requirements for the particular repair. Premix part A and B and then add either part A or B of the CM 2000 to the sand, then mix making sure all sand is completely wet. After sand has been mixed and wet out, add the other part of CM 2000 and mix quickly for 30 seconds. Mortar mixes must be used within 4 minutes. Once CM 2000 containers are opened, the CM 2000 must be used. Recapping and reuse of cartridges must be avoided.

Refer to www.daytonsuperior.com for latest Technical Data Sheet and MSDS
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12/02/08 • For Commercial/Industrial Use Only • Page 1 of 3

CM 2000™

Installation

To repair spalls and divots in concrete, prepare a mortar mix as instructed above. Remove all deteriorated concrete and square up edges. Clean out all dust, loose concrete and debris. Prime the work surface with neat CM 2000.

Chase cracks using a diamond blade making sure that the edges are square. Vacuum out crack with crevice tool or blow out with clean dry, oil free air, then prime with CM 2000. Immediately fill the crack to grade with clean 4010 grade quartz sand. Flood the sand with CM 2000 until entire crack is saturated, then broadcast additional sand on top to fill in low spots. Finish with a trowel across top, to achieve a flush surface. Do not overwork. Overworking will make the surface appear rough.

Cartridges are to be mixed per above instructions prior to use. For dispensing CM 2000 using cartridges, first remove the plastic cap and D rings from cartridge neck. Place the back flow restrictor into the neck carefully aligning the small hole openings. Attach the static mixer nozzle over the back flow restrictor and to the cartridge with the retaining nut, and finger tighten. Load a cartridge into a dispensing gun keeping cartridges in an upright position. Remove air from cartridges by slightly squeezing the gun handle while slowly rocking cartridges side to side until all visible air is displaced. Displace an amount of CM 2000 into a waste pail until the color is uniform with no streaks, then proceed to fill cracks.

APPROXIMATE COVERAGE/YIELD

Quantity Estimates - Depth vs Coverage - per square foot

Parts of sand per gal. of CM 2000	Yield Mortar gal.	1/4" (.6cm)	1/2" (1.3cm)	3/4" (1.9cm)	1" (2.5cm)	2" (5.1cm)
1 (3.7L)	1.6 (6.1L)	10.24 (.95 M ²)	5.12 (.48 M ²)	3.41 (.32 M ²)	2.57 (.24 M ²)	1.29 (.12 M ²)
2 (7.6L)	2.2 (8.3L)	14.08 (1.3 M ²)	7.04 (.65 M ²)	4.69 (.44 M ²)	3.52 (.33 M ²)	1.76 (.16 M ²)

CURE TIME

Tack free – 15 minutes, final cure – 22 minutes at 72°F (22°C).

PACKAGING

21 fl. oz. cartridges, 12 per case; 2 gal. (7.6L), 10 gal. (38L); units consisting of equal parts of Part A and Part B.

CLEAN-UP

Clean tools with Xylene or Acetone before CM 2000 has set.

LIMITATIONS

Do not use on exterior cracks or repairs where deck or slab movements are expected to exceed 6%. Do not use or install in wet or moist cracks, or anywhere the immediate work or repair is not dry. Do not thin with any solvents or thinners. Limit the installation to level or near level grades. High temperatures will accelerate setting time, and cool temperatures will slow down setting time. Store CM 2000 in original unopened factory containers in a dry environment between 55° and 90°F (13° and 32°C). Shelf life in unopened containers is 9 months.

WARNING

Use with adequate ventilation
Keep out of the reach of children
Do not take internally
In case of ingestion, CALL A PHYSICIAN immediately.
DO NOT induce vomiting

Component A – Prolonged or repeated exposure may cause eye/ skin irritation. If contact occurs, wash immediately and seek medical help as needed. Wear protective clothing, gloves and goggles.

Component B – Avoid skin and eye contact. Contact with skin may cause severe burns. 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. Wear protective clothing, gloves, and goggles. This product may be a strong sensitizer. Avoid inhalation of vapors. Use safety glasses and wear protective rubber gloves.
Read MSDS before using product.



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CM 2000™

CONTINUED

MANUFACTURER

Dayton Superior Corporation
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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.**

LIMITATION OF LIABILITY

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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12/02/08 • For Commercial/Industrial Use Only • Page 3 of 3

JOINTFILL™

TWO COMPONENT RAPID CURING POLYUREA JOINT FILLER

PRODUCT DESCRIPTION

JointFill is a 100% solids, two component, self leveling aromatic polyurea joint filler having good flexibility and elongation, allowing 10–15% joint width movement. JointFill can be installed in temperatures as low as 15°F (-9°C). JointFill is a joint filler having a Shore A hardness of 75-80A and can be used in place of semi-rigid epoxy fillers. Available in dark gray.

USE

JointFill primary use is for filling interior control or construction joints on horizontal concrete surfaces, such as industrial floors. JointFill formulation will accommodate small joint movement yet protect joint edges from spalling under heavy loads of steel wheeled or forklift traffic. Typical areas of use include warehouse floors, cold storage, manufacturing facilities, industrial facilities, food processing, water and waste water facilities, wire guiding systems and in cold applications where time and temperature are a concern.

BENEFITS

- Shave Joints in 45 minutes
- Cures at temperatures as low as 15°F (-9°C)
- Flexible at cold temperatures
- 100% solids, V.O.C. Compliant
- Odorless, no vapors
- Self leveling
- Open to traffic in 90 minutes
- Available in bulk or cartridge

APPLICABLE STANDARDS

- Meets USDA Regulations.
- Solids Content – 100%
- Pot Life – 3-4 minutes
- Tack Free – 30 minutes
- Initial Cure – 90 minutes
- Final Cure – 7 days
- Shore A Hardness – ASTM D 2240, 75-80A
- Elongation – ASTM D 412, 550-600%
- Tensile Strength – ASTM D 412, 1580PSI (5.9MPA)
- Tear Strength - Die C – ASTM D 624, 400 PLI
- Taber Abrasion – ASTM D 4060, 280mg loss, (1000gm, 1000 cycles, H-18 wheels)
- Standard Color: Dark Gray

APPLICATION

Installation of JointFill should not be performed until concrete is a minimum of 28 days old. All concrete must be dry for at least 5 days prior to installation of JointFill. A mock up sample area should be prepared and inspected to

assure acceptance of installation and appearance.

Surface Preparation

All joints and joint walls must be mechanically cleaned with a diamond cutting blade to insure proper bonding. All dust, debris, and old joint filler must be completely removed from the joint prior to installation of JointFill. Dust and debris should be removed by a vacuum crevice tool or clean, dry, oil free air blown at >120 cfm. All joints must be clean and dry at time of installation. Do not clean joints with water or solvents of any kind. Install closed cell backer rod at a depth of 3/4" (19.0mm) to 1" (25.4mm) into the joint. Avoid puncturing backer rod as it may lead to outgassing and bubbling. Use backer rod that is approximately 25% larger than the joint width. Do not use sand or open backer rod as a backer.

Mixing

The recommended application is either using cartridges or plural component metering pumps. Cartridges should be vigorously shaken for approximately 2 minutes before using. When using plural component metering pumps, both Part A and Part B must be thoroughly mixed separately prior to dispensing.

Installation

Installation should be performed during the cool part of the day, or in a temperature controlled environment. JointFill should be extruded from plural component metering pumps set for a 1:1 mixing ratio. Purge the pump before installing mixing nozzle, make sure that equal amounts of Part A and Part B are coming out at the mixing manifold. Install mixing nozzle and purge JointFill into a waste pail until a uniform color is achieved without streaking. Joints should be filled starting at one end and working toward the other. Slightly overfill joints, letting the JointFill form a slightly convex surface over the joint. Let the JointFill cure for approximately 30 minutes, then shave off excess flush with surface using a long handle razor floor scraper. JointFill can be shaved approximately 45 minutes after installation, depending on ambient temperature. Once a container of JointFill is opened for use, it must be used. Recapping and reuse should be avoided. For dispensing JointFill cartridges, first remove plugs from cartridge neck, attach the static mixer to the cartridge with the nut and finger tighten. Load a cartridge into the dispensing gun and dispense an amount of JointFill into a waste pail until the color is completely uniform with no streaks, then proceed to fill joints.

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JOINTFILL™

ESTIMATED COVERAGE

Lineal feet (meters) per cartridge unit

Depth in Inches	WIDTH			
	1/4" (6.3mm)	1/2" (12.7mm)	3/4" (19.0mm)	1.0" (25.4mm)
3/4 (19.0mm)	18' (5.4m)	9' (2.7m)	6' (1.8m)	4' (1.2m)
1.0 (25.4mm)	13' (3.9m)	7' (2.1m)	4' (1.2m)	3' (.91m)

CURE TIME

Tack Free – 30 minutes, initial cure – 90 minutes, final cure to reach full chemical resistance and mechanical properties – 7 days.

CLEAN-UP

Clean all tools and equipment with Xylene or Acetone before Jointfill has set.

PACKAGING

ITEM#	Package	Size		Weight
305786	21 fl. oz.	Cartridge	12/case	25 lb.

STORAGE

Store JointFill in original unopened containers in a dry environment at temperatures between 55–90°F (13°–32°C). Shelf life is 1 year in unopened containers and 6 months in cartridges.

LIMITATIONS

Do not use or install JointFill in wet or damp joints, or anywhere the immediate work or joint is not dry. Do not thin JointFill with any solvents or thinners. Limit the installation of JointFill to sloping grades not greater than 3°. Note: high temperatures will accelerate setting time, and cool temperatures will slow setting time.

PRECAUTIONS

Keep out of the reach of children. Do not take internally. In case of ingestion, CALL A PHYSICIAN immediately. DO NOT induce vomiting.
Component A – Prolonged or repeated exposure may cause eye/ skin irritation. If contact occurs, wash immediately and seek medical help as needed. Wear protective clothing, gloves and goggles.
Component B – Avoid skin and eye contact. Contact with skin may cause severe burns. 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. Wear protective clothing, gloves, and goggles. This product may be a strong sensitizer. Avoid inhalation of vapors. Use safety

glasses and wear protective rubber gloves. Read MSDS before using product.

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.

LIMITATION OF LIABILITY

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.



RAPID RESIN REPAIR

100% SOLIDS HYBRID EPOXY/URETHANE FOR CONCRETE REPAIRS

PRODUCT DESCRIPTION

Rapid Resin Repair is a 100% solids, low modulus, three-component, all weather, non-shrinking epoxy/urethane hybrid concrete repair and patching material. Rapid Resin Repair utilizes 100% solids epoxy/urethane technology along with specialty graded aggregates for achieving rapid turn around concrete repairs in all weather conditions.

USE

Rapid Resin Repair is specifically formulated, designed and engineered for use as an all weather, interior/exterior concrete spall and crack patching and repair mortar where a rapid turn around time is critical or cold conditions are a concern. Rapid Resin Repair can be used for patching of bridge decks, overpasses and roadways surfaces, freezers and cold room floors, airport runways, warehouse floors and any concrete slab or floor traffic way in need of repair or patching where cold temperatures are present or rapid turn around time is required.

BENEFITS

- Non-shrink
- Chemically resistant
- Easy 1:1 mixing ratio for Parts A & B
- Cures from -20°F to 130°F
- Open to traffic within 20 minutes
- Meets FDA and USDA requirements
- Low Odor
- V.O.C. Compliant – 0 g/L

COLORS

Component A – Dark Amber; Component B - Light Amber, Component C - Natural Aggregate

PROPERTIES, TEST DATA

Mix Ratio: 1:1
 Viscosity (mixed neat): 250 cps
 Gel Time: (100g mass) 3 minutes @ 73°F (23°C)
 Compressive Strength (ASTM C 579) 3,500 psi (24 MPa)
 Tensile Strength: (ASTM D 412) 1,500 psi (10.3 MPa)
 Bond Strength: (ASTM C 882) 2,000 psi (13.7 MPa)
 Hardness Shore: (ASTM D 2240) D Scale = 60-70
 Elongation %: (ASTM D 412) 30%
 Adhesion (ACI 503R) 400 psi concrete break

APPLICATION INSTRUCTIONS

Surface Preparation:

All surfaces to be in contact with the Rapid Resin Repair must be dry and free of any and all oil, grease, paint, curing compounds and any other contaminate that could

affect adhesion and bond. It is recommended to saw cut all concrete repair areas to a minimum of ½ inch deep. Provide a roughened concrete surface at least equal to an International Concrete Repair Institute (ICRI) CSP #5. Clean out all concrete dust and debris prior to placement of the Flash Patch.

Application: New concrete must be a minimum of 28 days old.

Mixing - Mix only as much Rapid Resin Repair as can be used within the pot life of the material approximately 3-5 minutes at room temperature. Stir/shake each component A & B for 30 seconds.; Mix each component A & B together for 30 seconds then add component C aggregate and mix for an additional 30 seconds then, PLACE IMMEDIATELY.

Placement - Pour and place the Rapid Resin Repair immediately after mixing. Concrete must be dry and free of moisture. Use a clean steel trowel to force the Rapid Resin Repair down into the repair area and then to strike off the top surface to match the surrounding concrete. Steel trowels may be slicked off using Xylene to add a degree of lubricity to trowling and clean off the trowel surface.

After reaching set in about 20 minutes, the Rapid Resin Repair may be ground flat and level with the surrounding concrete using a flexible 7-inch grinding wheel to grind smooth and level with the finished grade. Rapid Resin Repair may also be shaped by scraping or cutting with a razor knife scraper before reaching full set.

CLEAN UP

All tools and equipment should be cleaned before the material gels or hardens. Use solvents such as Xylene (Xylol), when necessary. Excess Part A and Part B material should be mixed together and allowed to reach hard set, then discarded in the hardened form.

PACKAGING

Item #	Package	Yield
309087	0.50 cu ft Unit Components A, B & C	0.50 cu ft.

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RAPID RESIN REPAIR

STORAGE

Rapid Resin Repair should be stored in a dry temperature controlled environment between 50°F to 85°F (10°C to 29°C). Shelf life is 1 year if cans are unopened, undamaged, and stored properly.

LIMITATIONS

New concrete must be at least 28 days old. Temperature of the substrate must be above -20°F (-28.9°C) during installation and for initial cure period. Rapid Resin Repair is moisture sensitive and should not be installed on wet concrete. Do not use material that has exceed its shelf life of 1 year.

PRECAUTIONS

DOT Classification: Part-A Not Regulated; Part-B Corrosive Liquid N.O.S., 8, UN 1760, PG-III

Component A – Prolonged or repeated exposure may cause eye/ skin irritation. If contact occurs, wash immediately and seek medical help as needed. Wear protective clothing, gloves and goggles.

Component B – Avoid skin and eye contact. Contact with skin may cause severe burns. 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. Wear protective clothing, gloves, and goggles. This product may be a strong sensitizer. Avoid inhalation of vapors. Use safety glasses and wear protective rubber gloves.

Read MSDS before using product

WARNING

- Use with adequate ventilation
- Keep out of the reach of children
- Use a NOISH approved respirator, when necessary
- Do not take internally
- In case of ingestion, CALL A PHYSICIAN immediately. DO NOT induce vomiting

MANUFACTURER

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LIMITATION OF LIABILITY

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SURE-ANCHOR ALL WEATHER EPOXY (J-51AW)

HYBRID ANCHORING GEL

PRODUCT DESCRIPTION

Sure-Anchor All Weather Epoxy (J-51 AW) is a two component 100% solid, moisture tolerant, all weather epoxy acrylate hybrid anchoring gel that meets ASTM C 881 specification requirements. Sure-Anchor All Weather Epoxy (J-51 AW) is formulated to set up at room temperatures and down to temperatures of -15oF.

USE

Sure-Anchor All Weather Epoxy (J-51 AW) is ideal for anchoring dowels, bolts, threaded rod, pins and reinforcement steel in concrete. Sure-Anchor All Weather Epoxy (J-51 AW) can also be used in cooler and freezer applications or anywhere low temperature installations are required.

BENEFITS

- All weather and temperature installation
- Ideal for cold weather installations
- Moisture tolerant
- High structural strength adhesive
- Rapid cure & gel time at room temperatures
- Styrene Free
- VOC Compliant-100% solids
- Non-sag gel consistency for horizontal and vertical installations
- Easy dispensing from dual cartridges
- High bond and adhesion

APPLICABLE STANDARDS

Complies with ASTM C 881: Types I, II, IV, V*, classes A, B & C. Grade 3 (*with exception of gel time) Passed- ASTM E-1512 (Sec.7.1 & 7.5) Elevated temperature creep test. Meets USDA specifications for use in incidental food contact. V.O.C. compliant.

PROPERTIES, TEST DATA

ASTM C 881

<u>Laboratory test data</u>	<u>Results</u>
Mix Ratio (A to B by volume)	10:1
Consistency	No flow-gel
Gel time (60 GM MASS @ 73°F)	7.5 Min.
ASTM D 695 - Compressive Strength	10,000 PSI (68.95 MPa)

ASTM D 695 - Compressive Modulus 260,000 PSI
(1,793 MPa)

ASTM D 570 - Water Absorption 0.08%

ASTM D 648 – Heat Deflection temp. 144°F (62.2 C)

ASTM C 882 – Bond Strength (2-days) 2,800 PSI
(19.31 MPa)

Laboratory test data

ASTM C 882 – Bond Strength (14-days)	3,200 PSI (22.06 MPa)
ASTM D 638 – Elongation break	1.3%
ASTM D 1875 – Density (lb/gal.) Part-A	13.2lb/gal. (1.58 kg/L)
ASTM D 1875 – Density (lb/gal.) Part-B	14.1lb/gal. (1.69 kg/L)

APPLICATION

IMPORTANT NOTICE:

For surface preparation and installation, installer must follow all requirements contained in this data sheet and in all applicable industry standards, practices, and procedures.

Surface Preparation

Concrete must be clean and sound. Remove all dust, dirt, grease, oils, curing compounds, laitance, paint, sealers, bond breakers, loose concrete or any other matter that may affect adhesion. Drilled holes must be cleaned with a nylon brush. Blow out the hole with clean, oil-free compressed air from the bottom up. Remove all standing or ponded water prior to installation of Sure-Anchor All Weather Epoxy (J-51 AW). Do not install over frost or ice.

Test before placement

It is advisable to test a small portion of the Sure-Anchor All Weather Epoxy (J-51 AW) for gel and set times at the temperature for intended use before overall installation. Make sure that the Sure-Anchor All Weather Epoxy (J-51 AW) will set at the intended temperatures.

Placement

Remove the “D” cartridge plugs from the extrusion throat end of the cartridge. Place the retaining nut over the small end of the static mixing tube. Securely hand tighten the retaining nut onto the cartridge making sure that there is no slack in the nut, otherwise leaking will occur. Place the assembled cartridge into either a manual or pneumatic gun. Pneumatic guns are recommended during temperatures below 40°F (10°C) and for large jobs where high production is required. Start installation by extruding material into a waste pail until a smooth uniform color without streaking has been achieved. Discard the first material that is

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SURE-ANCHOR ALL WEATHER EPOXY (J-51AW)

extruded from the end of the nozzle until the uniform streak-free color is achieved. Off color or streaking will result in an off ratio mix, and the J-51 AW will not set properly or develop maximum strength. Dispense the J-51 AW using constant and even pressure. Start dispensing by placing the static mixing nozzle to the bottom of the hole pulling the mixing nozzle out slowly filling the hole on the way out. Fill to approximately ½ full. Place dowel, rod, rebar, pin, etc. into the back of the hole, rotating the rod slowly, and displacing epoxy as it is inserted.

Whenever the dispensing is interrupted or otherwise stopped for more than 15 minutes, recheck the extruded J-51 AW for uniform streak-free color before use. Always establish uniform non-streak color before use to verify proper mixing.

CURE TIME

Minimum

Substrate Temp.	Gel Time	Cure Time
100°F / 38°C	5 min.	25 min.
70°F / 21°C	7 min.	35 mi
0°F / -18°C	4 hrs.	24 hrs.
-15°F / -26°C	8 hrs.	36 hrs.

Clean Up

Clean up with full strength Dayton Citrus Peel (J-48) or Xylene. Cured, hardened J-51 AW can only be removed mechanically. Do not let J-51 AW set up on surfaces that are not to be bonded.

WASTE DISPOSAL

Dispose of waste material and empty packaging in accordance with all Federal, State and Local requirements. Refer to the product's MSDS for further information.

ESTIMATING YIELD

Rebar			Anchor per 28 oz Cartridge
Bolt Diameter Rebar Size	Hole Diameter	Hole Depth	Rebar/Dowel
3/8" -#3 (1 cm)	1/2" (1.3 cm)	4" (10.2 cm)	104
1/2" -#4 (1.3 cm)	5/8" (1.6 cm)	5" (12.7 cm)	65
5/8" -#5 (1.6 cm)	3/4" (1.9 cm)	6" (15.2 cm)	45
3/4" -#6 (1.9 cm)	7/8" (2.2 cm)	7" (17.8 cm)	31
7/8" -#7 (2.2 cm)	1" (2.5 cm)	8" (20.3 cm)	23
1" -#8 (2.5 cm)	1-1/8" (2.8 cm)	9" (22.9 cm)	20
1-1/4" -#10 (3.2 cm)	1-1/2" (3.8 cm)	9" (22.9 cm)	9

Threaded Rod

Bolt Diameter Rebar Size	Hole Diameter	Hole Depth	Anchor per 28 oz Cartridge
3/8" -#3 (1 cm)	7/16" (1.1 cm)	4" (10.2 cm)	96
1/2" -#4 (1.3 cm)	9/16" (1.42 cm)	5" (12.7 cm)	55
5/8" -#5 (1.6 cm)	3/4" (1.9 cm)	6" (15.2 cm)	24
3/4" -#6 (1.9 cm)	7/8" (2.2 cm)	7" (17.8 cm)	16
7/8" -#7 (2.2 cm)	1" (2.5 cm)	8" (20.3 cm)	12
1" -#8 (2.5 cm)	1-1/8" (2.8 cm)	9" (22.9 cm)	9
1-1/4" -#10 (3.2 cm)	1-3/8" (3.2 cm)	9" (22.9 cm)	7

The above yield rates are theoretical and do not account for loss or waste.

PACKAGING

ITEM #	PACKAGE	SIZE	WEIGHT	
			OZ	ML
308482	CARTRIDGE	8 PER CARTON	28	825

STORAGE

Store at 40-80°F (5-27°C)

Shelf Life: 12-months in original un-opened sealed container at 70°F (21°C)

COLORS

Gray only.

LIMITATIONS

All surfaces that J-51 AW will be installed on must be free of frost and ice. Concrete must be a minimum of 7 days old. Do not thin or mix the J-51 AW with any other material, solvent, thinner or other bonding agent or epoxy. Do not use J-51 AW that has exceeded its shelf life as physical properties will be adversely affected.

PRECAUTIONS

Warning: This material is an irritant to skin and eyes.

Use proper protection to avoid skin and eye contact. If material comes into contact with eyes flush immediately with water for at least 15 minutes.

Contact physician immediately. For skin contact remove any contaminated clothing. Remove epoxy and wash skin thoroughly with soap and water.

COMPONENT A – Prolonged or repeated skin or eye contact may cause irritation. If contact occurs, wash



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04/10/07 • For Commercial/Industrial Use Only • Page 2 of 3

SURE-ANCHOR ALL WEATHER EPOXY (J-51AW)

CONTINUED

immediately and see medical help. Use safety glasses and wear protective rubber gloves. In case of ingestion, call a physician. Refer to material safety data sheets (MSDS) for additional information.

COMPONENT B – Contact with skin may cause severe chemical burns. Wash immediately with soap and water. Avoid eye contact. If eye contact occurs, flush immediately with water. Avoid breathing vapors. Use safety glasses and wear protective rubber gloves. In case of ingestion, call a physician. Refer to material safety data sheet (MSDS) for additional information.

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.

LIMITATION OF LIABILITY

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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04/10/07 • For Commercial/Industrial Use Only • Page 3 of 3

10-17

HD-50™

RAPID SETTING HEAVY DUTY FLOWABLE REPAIR MORTAR

PRODUCT DESCRIPTION:

HD-50 is a fast setting, fiber reinforced, latex modified, heavy duty concrete repair mortar designed for areas where a rapid strength gain is required to minimize downtime.

HD-50 is a cement based compound having similar characteristics to normal portland cement mixes and is bondable and compatible with portland cement concrete. It does not contain chlorides or magnesium phosphates.

HD-50 is a one component product requiring only water to mix and apply, simplifying restoration of concrete surfaces. Areas repaired with HD-50 can be opened to traffic within one hour because the compressive strength of the patch is already in excess of 2,000 psi.

PURPOSE:

HD-50 is a rapid setting, cement based concrete mortar designed for the repair of heavy duty surfaces such as concrete highways, bridge decks, parking structures, airport runways, freezer rooms, industrial and warehouse floors, and loading docks.

HD-50 is a flowable material and is not designed for vertical and overhead patching, unless the repair is formed. HD-50 can be installed in weather as cold as 10°F (-12°C), provided cold weather instructions are followed.

ADVANTAGES:

- Can be opened to use or traffic within 60 minutes.
- High compressive strength quickly – over 2,000 psi in one hour.
- Resists salt penetration and damage from freeze/thaw cycles.
- Contains no chlorides or magnesium phosphate (not a chemical concrete).
- Meets ASTM C-928; Specification for Very Rapid Hardening Cementitious Repair Materials.
- Can be applied in cold temperatures down to 10°F (-12°C), if cold weather instructions are followed.
- Non Corrosive.
- Bondable and compatible with portland cement concrete.
- Aggregate Extension – Up to 60% on repairs greater than 2 inches (5cm) deep.

SPECIFICATIONS:

Meets ASTM C-928: As a Type R-3 mortar which includes the following tests:

1. Compressive Strength – ASTM C-109

	At 75°F (24°C)	At 40°F (4°C)	At 100°F (38°C)
1 Hour	2500 psi (17.2 MPa)	-	-
3 Hours	3500 psi (24.1 MPa)	2700 psi (18.5 MPa)	5100 psi (35.1 MPa)
1 Day	6145 psi (42.4 MPa)	6100 psi (42.0 MPa)	6300 psi (43.4 MPa)
7 Days	7370 psi (50.8 MPa)	6860 psi (47.3 MPa)	7300 psi (50.3 MPa)
28 Days	7990 psi (55.1 MPa)	7800 psi (53.8 MPa)	8500 psi (58.6 MPa)

2. Bond Strength ASTM C-882

- 1 day 1,950 psi (13.4 MPa)
- 7 days 2,250 psi (15.5 MPa)

3. Length Change of Hardened Cement Mortar and Concrete ASTM C-928

Change	Water Storage	Air Storage	Differential
28 Days	+.051%	-.082%	.133%
ASTM C-928	Max. to .15%	Max. to -.15%	Max. .20%

4. Scaling Resistance (Freeze/Thaw) - ASTM C-672 Average of 3 specimens:

- Scaling Resistance - .71 lbs./ft² (3.5 kg/m²)
- ASTM C-928 Spec. - 1.0 lbs./ft² (4.9 kg/m²)

5. Rapid Freeze/Thaw Test: ASTM C-666

- At 300 Cycles - No loss.

6. Chloride Ion Permeability - ASTM C-1202

- Elapsed Time - 360 minutes
- Chloride Permeability Rating - Very Low

SURFACE PREPARATIONS:

For best results follow the ACI standards for concrete preparation, removing all residue, grease, dirt, oil, etc. from the surfaces to be in contact with the repair material. All loose concrete must be removed until firm substrate is exposed. Saw cut the perimeter of the repair to a maximum depth of 1/2" (1.3 cm). Best results will be obtained by saw cutting the area to be repaired, providing uniform depth, a high surface profile and firm bonding areas. Minimum repair depth of 1/2" (1.3 cm) is required. All surfaces to be repaired should be in a saturated surface dry (SSD) condition with no standing water on the surface. Using freshly mixed HD-50, scrub a thin layer onto the saturated-surface-dry (SSD) substrate with a stiff fiber brush and place

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HD-50™

theHD-50 before the scrub coat dries. In certain conditions the use of an approved bonding agent, i.e. J-40, J-58, may be required. Contact Technical Services for further information.

PLACEMENT INSTRUCTIONS:

When mixing less than a full bag, always first agitate the bag so that a representative sample is obtained. HD-50 requires only water for mixing at the rate of 3.25 qts. (3L) per 50 lbs. (22.7 kg) of material. Place water into the mixing container and then add the repair material to the water. The product can be mixed with a mud paddle in a 5 gal. (18.9L) container, or can be mixed in a mortar mixer, preferably with rubber-tipped blades. Continue mixing until the material is free of lumps (approx. 3-5 minutes). Mix as close as possible to the area to be repaired. Do not allow material to build up on equipment and wash periodically with water. Do not re-temper the mixed material or use admixtures. Place immediately after mixing, working the material firmly into the sides and bottom to eliminate air pockets and assure maximum bond. Where practical, work from one side to the other and screed to the level of the surrounding concrete. Trowel the surface or provide a desired finish. Working time is 15 minutes. HD-50 should be extended up to 60% by weight with clean saturated-surface-dry (SSD) 3/8" (1.0 cm) pea gravel on patches deeper than 2" (5 cm). For aggregate extension greater than 60%, contact Dayton Superior. On hot or windy days, a moist cure for 1 hour is recommended, or apply one of Dayton Superior water based curing compounds, such as J-18 or J-11-W.

HOT AND COLD WEATHER APPLICATIONS:

COLD - HD-50 can be applied in temperatures down to 10°F (-12°C), provided these instructions are followed. When applied in cold weather (below 40°F, 4°C), heat the surrounding concrete until warm to the touch. Warm the repair material and use approx. 90°F (33°C) mixing water. After placement, the repaired patch should be covered with a construction insulating blanket for a minimum 1-3 hours to keep material from freezing and to assure proper set and bond.

HOT - When placing the material in hot weather, cold water should be used as a mixing agent. Ambient and water temperatures will affect the setting time. Colder temperatures will extend the setting time, and warmer temperatures will shorten the setting time. At 70°F (21°C), the initial setting time is between 15 and 20 minutes. In applications where temps. are above 90°F (33°C) it is recommended the repair area be soaked with water, or use of an approved bonding agent like Dayton Superior Ad Bond (J-40) be applied to prevent the rapid loss of the moisture in the patch material. The repair area should be covered with wet burlap or one of Dayton Superior water based curing compounds, such as J-18 or J-11-W.

YIELD:

.62 cubic ft. per 50 lb. (.012 m³/ 22.7 kg) bag
.60 cubic ft. per 50 lb. (.017 m³/22.7 kg) bag with 60% extension (30 lbs. or 13.6 kg) with 3/8" (1 cm) pea gravel.

PACKAGING:

50 lb. (22.7 kg) bags, 50 bags per pallet

LIMITATIONS:

Do not attempt to retemper HD-50 after initial mixing. Do not add other cements or admixtures. HD-50 is a fast-setting product and mixing equipment should be cleaned with water at the earliest time. Shelf life of this material is approx. one year. Store on pallets in a cool, dry area and free from direct sunlight.

WARNING:

Skin is sensitive to cement. Wearing protective gloves and goggles is recommended. Avoid contact with eyes. Avoid prolonged contact with skin. Contains portland cement. Wash exposed skin promptly with water. May cause skin irritation as well as cement burns. In case of eye contact, flush eyes repeatedly with clean water and contact a physician. Harmful if ingested. Read MSDS before using product.

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.**

LIMITATION OF LIABILITY

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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10/04 • For Commercial/Industrial Use Only • Page 2 of 2

TURBO GROUT™

PRODUCT DESCRIPTION

An expansive cement based grout designed for use in cooler temperatures to provide faster set times and quicker strength gain than normal cement based non-shrink grouts. Ideal for use in cooler temperatures, as low as 35°F (1.7°C).

USE

Designed for the grouting of base plates for wind turbine towers, machinery and equipment base plates, columns, crane rails, etc. Also ideal for use in grouting precast panels in cooler temperatures.

BENEFITS

Sets Quickly, Even in Cooler Temperatures
 Fast Strength Gain
 Non Metallic / Non Corrosive
 Plastic or Flowable Consistency
 Can Be Installed in Temperatures as Low as
 35°F (1.7°C)

PROPERTIES

Density: 135 lbs. Ft³

Compressive Strength (flowable consistency):
 @ 70°F (21°C) @ 35°F (1.7°C)

1 Hour:	2500 psi (17.2 MPa)	
2 Hours:	500 psi (3.4 MPa)	
3 Hours:	4000 psi (27.5 MPa)	2000 psi (13.8 MPa)
8 Hours:	4000 psi (27.5 MPa)	
1 day:	6500 psi (44.8 MPa)	5000 psi (34.5 MPa)
7 days:	8000 psi (55.2 MPa)	7700 psi (53.1 MPa)
28 days:	10,000 psi (69.0 MPa)	9000 psi (62.0 MPa)

Set Times: Approximately 30 minutes @ 70°F (21°C), 45 minutes @ 35°F (1.7°C)

Working Time: Approximately 15 minutes @ 70°F (21°C), 35 minutes @ 35°F (1.7°C)

APPLICATION

SURFACE PREP: Thoroughly clean all contact surfaces. Existing concrete should be strong and sound. Surface should be roughened to enhance bond. Metal base plates should be clean and free of oil and other contaminants. Maintain contact areas between 35°F (1.7°C) and 70°F (21°C) before grouting and during curing period.

Thoroughly wet concrete contact area 24 hours prior to grouting, keep wet, and remove all surface water just prior to placement. If 24 hours is not possible, saturate with water for at least 4 hours. Forms must be sealed to prevent

water or grout loss. On the placement side, provide an angle in the forms high enough to assist in grouting and maintain head pressure on the grout during the grouting process. Forms should be at least 1" (2.5 cm) higher than the bottom of the base plate.

Mixing

A mechanical mixer with rotating blades is best. Small quantities can be mixed with tools by hand. Place approximately 3/4 of the anticipated mix water into the mixer; add the grout and mix, adding the minimum additional water necessary to achieve the desired consistency. Mix for a total of five minutes ensuring uniform consistency. For placements greater in depth than 3" (7.6 cm), up to 25 pounds (11.3 kg) of washed pea gravel 3/8" (1 cm) maximum size must be added to each 50 pound (22.7 kg) bag of grout. The approximate working time (pot life) is 15 minutes @ 70°F (21°C) and 35 minutes @ 35°F (1.7°C).

WATER REQUIREMENTS

Per 50 lb. Bag (22.7 kg):

Plastic - 2.5 qts. (2.4 L)

Flowable - 3.0 qts. (2.8 L)

Maximum allowable water per bag is 3.25 quarts (3.07 L)

PLACEMENT

Grout should be placed so as to avoid entrapped air pockets. Grout should not be over-worked causing segregation. Vent holes should be provided where necessary. Forms must be sealed to prevent water or grout loss. When possible, grout bolt holes first. Placement and consolidation should be continuous for any one section of the grout. When nearby equipment causes vibration of the grout, such equipment should be shut down for a period of 3-4 hours after grout placement. Due to fast set times, use only short hose lengths when pumping.

Forms may be removed when grout is completely self supporting. Cut away where grout excessively restricts movement of steel, i.e., edges of base plates, etc. For best results, grout should extend downward at a 45° angle from the lower edge of the steel base plates or similar structures.

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TURBO GROUT™

CURING

Exposed grout surfaces should be cured using Dayton Superior curing or cure and seal products. Maintain the temperature of the grout and contact area at above 35°F (1.7°C) for a minimum of 8 hours.

CLEAN UP

Use water to remove fresh material. Hardened material will require abrasive methods.

ESTIMATED YIELD

0.41 Ft³ per 50 lbs (0.011 M³ per 22.7 kg) bags

PACKAGING

ITEM #	Package	Size	
		Lbs.	Kgs.
308784	Bag	50	22.7

STORAGE

Store in a cool, dry area that is free from moisture and direct sunlight

LIMITATIONS

Do not retemper after initial mixing. Do not add other cements or additives to material. Set times will vary depending on temperatures. Do not mix more than can be placed in 15 minutes @ temperatures above 50°F. Product is best suited for applications in temperatures from 35°F (1.7°C) to 50°F (10°C). Temperatures above 50°F (10°C) will greatly decrease the pot life, flowability and work times. Not intended for application in temperatures above 70°F (21°C). For applications above 70°F (21°C) use Sure-Grip High Performance Grout. Contact manufacturer for specific recommendations. Exposed grout surfaces should be cured. When using less than one bag always dry mix the full bag to eliminate segregation that can occur during shipping.

PRECAUTIONS

Avoid direct contact with skin and eyes. Product contains Portland Cement. Wash exposed skin area promptly with water. May cause skin irritation and possibly cement burns. In case of eye contact, flood eyes repeatedly with water and call physician. Do not take internally. Harmful if ingested. Keep product out of reach of children.

MANUFACTURER

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LIMITATION OF LIABILITY

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.



Refer to www.daytonsuperior.com for latest Technical Data Sheet and MSDS
7777 Washington Village Dr., Suite 130, Dayton OH 45459
Customer Service: (888) 977-9600
Technical Assistance: (866) 329-8724

GENERAL PURPOSE CURE & SEAL™ (J-20 U.V.)

SPRAYABLE IN A WIDE TEMPERATURE RANGE, FROM 35° TO 90°F AND U.V. STABLE

PRODUCT DESCRIPTION:

General Purpose Cure & Seal (J-20 U.V.) 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). J-20 U.V. 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.

PURPOSE:

General Purpose Cure & Seal (J-20 U.V.) 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 dustproofer and surface sealer. J-20 U.V. will resist many chemicals, help protect against staining and allows easy removal of mortar splatters.

J-20 U.V. is compatible with Dayton Superior Safe Seal Heavy Duty (J-24 H.D.) Sealer.

ADVANTAGES:

- Sprays Well in Warm & Cool Temperatures
- U.V. Stable, Resists Yellowing
- Cures (Meets ASTM C-309)
- Seals and Protects Concrete
- Dustproofs
- Five Year Warranty (contact Dayton Superior for details)

MEETS SPECIFICATIONS:

- ASTM C-156 (Method of testing, water retention for ASTM C-309)
- ASTM C-309, Type 1, Classes A & B
- AASHTO M-148, Type 1, Classes A & B

APPLICATION INSTRUCTIONS:

Fresh Concrete:

Apply J-20 U.V. immediately after all surface water has disappeared and the surface cannot be marred. Application of J-20 U.V. too early or too late can affect the overall curing performance. Use low pressure spray, roller or brush. A Chapin Industrial Sprayer, Model 1949 or similar, with a 0.5 GPM (1.9 LPM) 80 degree flat fan nozzle, at approximately 30 psi (2.1 bar) has shown to work well. 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 J-20 U.V. with other materials, solvents or water. Do not thin. Apply uniformly without puddles. For removal of J-20

U.V., use Dayton Superior Citrus Peel (J-48).

Old Concrete:

Clean and restore surface as required. Apply two uniform applications as above.

Note: On old concrete surfaces Dayton Superior recommends a more breathable sealer, such as Safe Seal Heavy Duty (J-24 H.D.) or Day-Chem Tuf Seal (J-35).

APPROXIMATE COVERAGE:

	FT ² per Gallon	M ² per Liter
Curing	200 – 400	4.9 – 9.8
Sealing	200 – 400	4.9 – 9.8
Second Coat	400 – 600	9.8 – 14.7

Texture and absorption of surface will influence final coverage rates.

DRYING TIME:

Approx. 2 hours at 70°F (21°C) for re-coating or light traffic. Wait 12 hours for heavy traffic.

PACKAGING:

5 gal.(18.9L) pails and 55 gal. (208L) drums

CLEAN-UP:

Tools & Equipment use: Xylol or lacquer thinner. For dried material remove with Dayton Superior Citrus Peel (J-48).

LIMITATIONS:

For applications of a cure and seal in an enclosed structure, Dayton Superior recommends a water-based product like the Safe Cure & Seal (J-18) or (J-19). Sprayers and equipment must have suitable type neoprene hoses and gaskets. Do not apply concrete or mortar toppings over sealed surfaces.

Remove J-20 U.V. with Citrus Peel (J-48) before applying resinous (epoxy, polyester, urethanes, etc.) coatings. Do not store food containers directly on the floor, always place on pallets.

Shelf life is one year.

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WARNING:

Use with adequate ventilation
Keep out of the reach of children
Do not take internally
In case of ingestion, CALL A PHYSICIAN
immediately.
DO NOT induce vomiting

Flammable Mixture. If splashed in the eyes, flush thoroughly with clean water for a minimum of 15 minutes. CALL A PHYSICIAN immediately. May cause irritation to the skin. If brought into contact with the skin, wash thoroughly with soap and water. Seek medical attention if redness or irritation occurs. Avoid breathing vapors and spray mist. After installation, thoroughly ventilate inside area to remove all solvent odors before placing into service. Keep away from heat, spark, open flame and other possible sources of ignition.

Reseal container after each use. Wear protective clothing, gloves, and goggles. May contain mineral spirits. Safe disposal of rags is necessary to avoid possibility of spontaneous combustion. Read MSDS before using product.

MANUFACTURER

Dayton Superior Corporation
7777 Washington Village Dr., Ste. 130
Dayton, OH 45459
Customer Service: 877-977-9600
Technical Services: 877-416-3439
Website: www.daytonsuperiorchemical.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.

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