

SECTION 11

Sealers

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TECHNICAL DATA SHEET

WHAT ARE THE EXPECTATIONS OF THE SEALER

- To be topically applied or penetrating
- Water repellency
- Color or one that is transparent
- Increased abrasion resistance
- Chemical resistance.. & to which chemicals
- Dustproofing
- Glossy surface
- Light reflectance
- Potable water approval

A sealer is not a curing compound, nor a curing & sealing compound, and can not be expected to compensate for concrete that is inadequately cured.

CONSIDERATIONS IN SELECTING A SEALER

Is it a vapor barrier, or breathable

Is the application interior or exterior

What are the main benefits the owner is looking to receive

Is there a warranty required

Does the sealer contribute to making the surface more slippery

How soon after concrete placement can the sealer be applied

What is the recommended surface preparation for the sealer

How is the material applied (spray & run, or dump & scrub)

Turn-around time (how soon can the area treated surface be used)

Surface Preparation: Surfaces should be clean, free of oil, grease, dirt, paint, curing compounds and the like.

On burnished or extremely dense floors, older dirty floors or for epoxy urethane applications, mechanical surface preparation is recommended (such as: high pressure water, shot blasting, sand blasting)

Preparation Before Application: When using a sealer that is a vapor barrier always perform a vapor transmission (VT) test after the surface preparation is completed and just prior to the material application. VT can cause surface defects & weaken the bond of the sealer to the substrate.

Verify all traces of curing membranes and / or other contaminants are removed from the surface.

Be sure all materials have been preconditioned per manufacturers recommendation.

Always mix the sealer prior to use.

Application

Apply the sealer in accord with the manufactures recommendations

Several thin applications better than one heavy application

Apply uniformly for best performance & esthetic value

Always recommend a mock-up using the same applicator that will do the job; Texture, color, uniformity, transparency are all subjective.

DAYTON SUPERIOR SEALERS

Acrylic, Water-Based, breathable:

Ultra Seal EF

- High solids
- Non-yellowing
- VOC of 95 g/L
- Low odor
- High gloss
- Excellent UV stability

Gas/oil resistant, breathable methacrylate-based (solvent):

Tuf Seal™ J35*

- USDA Approved

High gloss, breathable sealer, methacrylate based (solvent):

AggreGloss™ J25*

- USDA Approved

Anti-Spalling Compound, Linseed oil-based:

- Anti Spall J33

Anti-Slip translucent powder for cure & seals and sealers:

- Grip Aid

*NOTE: The J25 and J35 are also available in a satin finish, J-25S and J-35S

TECHNICAL DATA SHEET

DESCRIPTION

Grip Aid is a very fine anti-slip powder that adds texture to most clear or colored sealers

USE

When added to a sealer, the Grip Aid provides slip resistance providing a "bite" to the concrete surface, without being highly abrasive.

FEATURES

- Will reduce slipperiness of concrete surface
- Makes the surface easier to walk on
- Will not affect topcoat color
- Can be used for interior and exterior applications

ESTIMATING GUIDE

Add 3.2 oz. (90.72 g) to one gallon (3.79 L) of sealer and 16 oz. (453.59 g) to 5 gallons (18.93 L) of sealer. Apply the sealer at a coverage rate recommended by the sealer manufacturer.

PACKAGING

ITEM #	PACKAGE	SIZE	
		Ounces	Grams
273496	Plastic Bottle	3.2	90.72
273497	Plastic Bottle	16	453.59

STORAGE

Store in a dry area. Shelf life is 18 months from date of manufacture in unopened containers.

APPLICATION

Mixing: Add a 3.2 oz. (90.72 g) Container of Grip Aid to one (1) gallon (3.79 L) of sealer, or a 16 oz. (453.59 g) Container to five (5) gallons (18.93 L) of sealer. Mix thoroughly, and often, prior to and during application.

Placement: Roller or spray application is recommended. Apply per the sealer instructions. Small areas may be brushed. Apply uniformly.

CLEAN UP

Clean up in accord with the recommendations of the sealer manufacturer

LIMITATIONS

FOR PROFESSIONAL USE ONLY

Do not roll or brush excessively to avoid agglomeration of the Grip Aid.

Do not use filters in spray equipment.

PRECAUTIONS

READ MSDS PRIOR TO USING PRODUCT

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

MANUFACTURER

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WARRANTY

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

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

TECHNICAL DATA SHEET

DESCRIPTION

AggreGloss™ J25 is a formulation of 25% methacrylate copolymers in an aromatic solvent. AggreGloss™ J25 is a clear sealer that will not yellow under exposure to sunlight. The AggreGloss™ J25 forms a tenacious bond to the concrete surface and provides a long lasting high gloss film.

USE

AggreGloss™ J25 will seal, dustproof and enhance the beauty of new and old concrete. It is a film forming sealer for concrete, stamped concrete, exposed aggregate concrete or pavers. AggreGloss™ J25 allows the substrate to breathe while protecting it from rain and airborne contaminants.

FEATURES

- Protects against rain
- Non-yellowing
- Excellent adhesion to substrate
- Inhibits attack by airborne contaminants
- Breathable film
- High gloss finish
- Resists mildew and surface staining
- Inhibits efflorescence

PROPERTIES

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

ESTIMATING GUIDE

Approximate Coverage Rates:

	Sq. Ft./Gal	Sq M/Liter
1st coat	200 – 300	4.9 – 7.4
2nd coat	400 – 600	9.8 – 14.8

Texture and absorption rate of the concrete will influence coverage rate. Two coats of AggreGloss™ J25 are recommended. Allow the first coat to dry before applying the second coat.

PACKAGING

ITEM #	PACKAGE	SIZE	
		Gallons	Liters
69058	Jug (36 min.)	1	3.79
69057	Pail	5	18.93
69056	Drum	55	208.20

STORAGE

Store material in a horizontal position to prevent moisture accumulation on the drum head.

Shelf life is 24 months from date of manufacture in unopened containers. Do not store below 0°F (-18°C).

APPLICATION

Surface Preparation: Surface must be clean, dry, free of grease, dirt, paint and efflorescence (white residue). If the substrate is wet from the rain or from surface cleaning, wait a minimum of 24 hours to allow the surface to dry completely before applying. Repair all defects prior to sealing. Protect or avoid spraying AggreGloss™ J25 on glass or metal.

Placement: Apply AggreGloss™ J25 with low pressure spray, roller or brush. Apply uniformly without interruption to prevent streaking. Hold sprayer nozzle perpendicular to the surface and overlap each coat. In order to reduce loss of material to the atmosphere, avoid high pressures when spraying and too fine a spray. Ensure spray nozzle is allowing for a uniform spray pattern without tailings or drips. Coverage will vary with the density and texture of the surface. Apply the AggreGloss™ J25 to achieve a complete, uninterrupted film. Avoid applications that are too heavy or too light. Heavy coats can bubble and reduce moisture vapor transmission. Too light of an application may not allow material to form a complete film. Avoid application during excessively hot air or substrate temperatures (>90°F, 32.2°C).

CLEAN UP

For tools and equipment use xylol or lacquer thinner.

LIMITATIONS

FOR PROFESSIONAL USE ONLY

For applications of a sealer in an enclosed structure, Dayton Superior recommends a water based product like the Ultra Seal EF.

Sprayers and equipment should have neoprene or viton type hose and gaskets.

Allow 24 hours after rain before application.

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

AggreGloss™ J25 is not intended for areas subject to high abrasion, such as bridge decks and roadways.

Do not use AggreGloss™ J25 on bituminous surfaces, staining will result.

Will interfere with the adhesion of sealants, thus avoid spraying AggreGloss™ J25 into a joint prior to installation of sealant.

Apply to concrete that is a minimum of 7 days old.

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

Film may show black rubber tire marks.

Not resistant to gas, oil, brake fluid, etc.

Will darken color of concrete surfaces

PRECAUTIONS

READ MSDS PRIOR TO USING PRODUCT

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

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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

AggreGloss™ Satin J25S is a formulation of 25% methacrylate copolymers in an aromatic solvent. AggreGloss™ Satin J25S is a clear sealer that will not yellow under exposure to sunlight. The AggreGloss™ Satin J25S forms a tenacious bond to the concrete surface and provides a long lasting, low gloss, satin film.

USE

AggreGloss™ Satin J25S will seal, dustproof and enhance the beauty of new and old concrete. It is a film forming sealer for concrete, stamped concrete, exposed aggregate concrete or pavers. AggreGloss™ Satin J25S allows the substrate to breathe while protecting it from rain and airborne contaminants.

FEATURES

- Protects against rain
- Non-yellowing
- Excellent adhesion to substrate
- Inhibits attack by airborne contaminants
- Breathable film
- Satin finish
- Resists mildew and surface staining
- Inhibits efflorescence

PROPERTIES:

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

ESTIMATING GUIDE

Approximate Coverage Rates:

	Sq. Ft./Gal	Sq M/Liter
1st coat	200 – 300	4.9 – 7.4
2nd coat	400 – 600	9.8 – 14.8

Texture and absorption rate of the concrete will influence coverage rate. Two coats of AggreGloss™ Satin J25S are recommended. Allow the first coat to dry before applying the second coat.

PACKAGING

ITEM #	PACKAGE	SIZE	
		Gallons	Liters
305646	Pail	5	18.93

STORAGE

Store material in a horizontal position to prevent moisture accumulation on the drum head.

Shelf life is 24 months from date of manufacture in unopened containers. Do not store below 0°F (-18°C).

APPLICATION

Surface Preparation: Surface must be clean, dry, free of grease, dirt, paint and efflorescence (white residue). If the substrate is wet from the rain or from surface cleaning, wait a minimum of 24 hours to allow the surface to dry completely before applying. Repair all defects prior to sealing. Protect or avoid spraying AggreGloss™ Satin J25S on glass or metal.

Placement: Apply AggreGloss™ Satin J25S with low pressure spray, roller or brush. Apply uniformly without interruption to prevent streaking. Hold sprayer nozzle perpendicular to the surface and overlap each coat. In order to reduce loss of material to the atmosphere, avoid high pressures when spraying and too fine a spray. Ensure spray nozzle is allowing for a uniform spray pattern without tailings or drips. Coverage will vary with the density and texture of the surface. Apply the AggreGloss™ Satin J25S to achieve a complete, uninterrupted film. Avoid applications that are too heavy or too light. Heavy coats can bubble and reduce moisture vapor transmission. Too light of an application may not allow material to form a complete film. Avoid application during excessively hot air or substrate temperatures (>90°F, 32.2°C).

CLEAN UP

For tools and equipment use Xylol or lacquer thinner.

LIMITATIONS

FOR PROFESSIONAL USE ONLY

For applications of a sealer in an enclosed structure, Dayton Superior recommends a water based product like the Ultra Seal EF.

Sprayers and equipment should have neoprene or viton type hose and gaskets.

Allow 24 hours after rain before application.

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

AggreGloss™ Satin J25S is not intended for areas subject to high abrasion, such as bridge decks and roadways.

Do not use AggreGloss™ Satin J25S on bituminous surfaces, staining will result.

Will interfere with the adhesion of sealants, thus avoid spraying AggreGloss™ Satin J25S into a joint prior to installation of sealant.

Apply to concrete that is a minimum of 7 days old.

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

Film may show black rubber tire marks.

Not resistant to gas, oil, brake fluid, etc.

Will darken color of concrete surfaces

PRECAUTIONS

READ MSDS PRIOR TO USING PRODUCT

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

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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 uniform blend of mineral spirits and boiled linseed oil used for protecting exterior concrete. The Anti Spall J33 has a light amber color.

USE

Anti Spall J33 protects new and old concrete surfaces from progressive deterioration caused by freeze/thaw cycles and deicing salts. It is specially formulated to resist the penetration of water and deicing salts.

Anti Spall J33 is especially effective for providing maximum first-winter protection on newly placed concrete and is also effective for protecting older concrete surfaces. It is an ideal product for use on bridge decks, bridge superstructures, highways, parking garages, and concrete barrier rails, loading areas, runways, and many exterior concrete surfaces.

FEATURES

- Prolongs the life of concrete
- Resists freeze/thaw cycles and deicing salts
- Creates an effective barrier against the elements of weather
- Applies easily – by spray, roller or broom
- Dries quickly
- Provides protection for new and old concrete surfaces

PROPERTIES

Meets AASHTO M-233-86, standard specification for: "Boiled Linseed Oil Mixture for Treatment of Portland Cement Concrete." (AASHTO M-126 and M-128 have been discontinued). Boiled linseed oil meets ASTM Specification D-260 and Federal Specification TT-L-190-d. Mineral Spirits meets ASTM Specification D-235 and Federal Specification TT- L-291 -c. Formulations will conform to most state specifications for anti-spalling compounds.

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

VOC

Complies with U.S. EPA requirements with less than 400 g/L

ESTIMATING GUIDE

Coverage: Two coats are recommended. Apply the first coat at 350 sq. ft./gal. (8.6 sq m/L) When the first coat is dry to the touch, apply the second coat at 600 sq. ft /gal. (14.7 sq m/L). When the second coat is totally dry, the surface is ready for traffic. Texture and absorption of surface will influence final coverage rates.

PACKAGING

ITEM #	PACKAGE	SIZE	
		Gallons	Liters
69180	Pail	5	18.93
69179	Drum	55	208.20

STORAGE

Store material in a horizontal position to prevent moisture accumulation on the drum head.

Shelf life is 24 months from date of manufacture in unopened containers.

APPLICATION

Surface Preparation: Surfaces should be clean of all dirt, oil, grease, curing compounds and other substances that would prevent proper penetration of the material. Prior to application, the surface should be thoroughly dry. Wait a minimum of 24 hours for a damp surface to dry out. New concrete should be cured for a minimum of 14 days before application of the anti-spalling sealer (28 days is preferred).

Placement: Application can be by tank sprayer, broom, roller or the use of spray bars for the larger jobs. Two coats are recommended. DO NOT OVER APPLY. ANY EXCESS OR PUDDLES OF MATERIAL MUST BE REMOVED WITH RAGS OR PAINT ROLLER. Do not apply in temperatures below 40°F (4°C). For maximum protection, apply Anti Spall J33 onto the concrete surface before it is exposed to deicing salts. Protect the spray from accidentally hitting nearby cars, buildings, grass and shrubs.

CLEAN UP

Tools and equipment: use mineral spirits, naphtha or xylene.

LIMITATIONS FOR PROFESSIONAL USE ONLY

Product will turn the concrete to a dark amber color.

Do not over apply the product because a slippery or tacky surface may result.

Use less material on a dense or smooth troweled concrete surface.

Do not apply in temperatures below 40°F (4°C)

PRECAUTIONS

READ MSDS PRIOR TO USING PRODUCT

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

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TECHNICAL DATA SHEET

DESCRIPTION

Tuf Seal™ J35 is a scientifically formulated clear, non-yellowing sealer comprised of methyl methacrylate polymers. It dries to a durable, high gloss finish that not only protects, but also beautifies floors. Tuf Seal™ J35 is designed to provide protection from oil and gasoline and excellent resistance to oils, greases and weathering.

USE

Tuf Seal™ J35 will not only provide improved gasoline/oil resistance, but it will also help to prevent dusting, spalling and inhibit efflorescence. Clean-up time is reduced and simplified since dirt, grease, oil that normally soak into the concrete are easily removed from the coating. Tuf Seal™ J35 not only offers protection for concrete surfaces, but it can also protect and beautify exposed aggregate and stamped concrete.

FEATURES

- High gloss finish
- Easy to recoat – No extensive surface preparations
- Resists gasoline, grease, and many oils
- Non-yellowing, clear coating
- Reduces maintenance and clean-up time
- Excellent protection against the weather and ultraviolet radiation
- USDA Approved for incidental food contact

PROPERTIES

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

ESTIMATING GUIDE

Approximate Coverage Rates:

	Sq. Ft./Gal	Sq M/Liter
1st coat	200 – 300	4.9 – 7.4
2nd coat	400 – 600	9.8 – 14.8

Texture and absorption rate of the concrete will influence coverage rate. Two coats of Tuf Seal™ J35 are recommended. Allow the first coat to dry before applying the second coat.

PACKAGING

ITEM #	PACKAGE	SIZE	
		Gallons	Liters
69078	Unit (36 min.)	1	3.79
69077	Pail	5	18.93
69076	Drum	55	208.20

STORAGE

Store material in a horizontal position to prevent moisture accumulation on the drum head.

Shelf life is 24 months from date of manufacture in unopened containers. Do not store below 0°F (-18°C).

APPLICATION

Surface Preparation: Surface must be clean, dry, free of grease, dirt, paint and efflorescence (white residue). If the substrate is wet from the rain or from surface cleaning, wait a minimum of 24 hours to allow the surface to dry completely before applying. Repair all defects prior to sealing. Protect or avoid spraying Tuf Seal™ J35 on glass or metal.

Placement: Apply Tuf Seal™ J35 with low pressure spray, roller or brush. Apply uniformly without interruption to prevent streaking. Hold sprayer nozzle perpendicular to the surface and overlap each coat. In order to reduce loss of material to the atmosphere, avoid high pressures when spraying and too fine a spray. Ensure spray nozzle is allowing for a uniform spray pattern without tailings or drips. Coverage will vary with the density and texture of the surface. Apply the Tuf Seal™ J35 to achieve a complete, uninterrupted film. Avoid applications that are too heavy or too light. Heavy coats can bubble and reduce moisture vapor transmission. Too light of an application may not allow material to form a complete film. Avoid application during excessively hot air or substrate temperatures (>90°F, 32.2°C).

CLEAN UP

For tools and equipment use xylol or lacquer thinner.

LIMITATIONS

FOR PROFESSIONAL USE ONLY

For applications of a sealer in an enclosed structure, Dayton Superior recommends a water based product like the Ultra Seal EF.

Sprayers and equipment should have neoprene or viton type hose and gaskets.

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

Apply to concrete that is a minimum of 7 days old.

Will interfere with the adhesion of sealants, thus avoid spraying Tuf Seal™ J35 into a joint prior to installation of sealant.

Product intended for incidental or short term chemical contact; for long term exposure applications contact Dayton Superior technical services.

Tuf Seal™ J35 will not resist brake or hydraulic fluids.

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

Film may show black rubber tire marks.

Will darken color of concrete surfaces

PRECAUTIONS

READ MSDS PRIOR TO USING PRODUCT

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

MANUFACTURER

Dayton Superior Corporation
1125 Byers Road
Miamisburg, OH 45342
Customer Service: 888-977-9600
Technical Services: 866-329-8724
Website: www.daytonsuperior.com

WARRANTY

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

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

TECHNICAL DATA SHEET

DESCRIPTION

Tuf Seal™ Satin J35S is a scientifically formulated clear, non-yellowing sealer comprised of methyl methacrylate polymers. It dries to a durable, satin finish that not only protects, but also beautifies floors. Tuf Seal™ Satin J35S is designed to provide protection from oil and gasoline and excellent resistance to oils, greases and weathering.

USE

Tuf Seal™ Satin J35S will not only provide improved gasoline/oil resistance, but it will also help to prevent dusting, spalling and inhibit efflorescence. Clean-up time is reduced and simplified since dirt, grease, oil that normally soak into the concrete are easily removed from the coating. Tuf Seal™ Satin J35S not only offers protection for concrete surfaces, but it can also protect and beautify exposed aggregate and stamped concrete.

FEATURES

- Satin finish
- Easy to recoat – No extensive surface preparations
- Resists gasoline, grease, and many oils
- Non-yellowing, clear coating
- Reduces maintenance and clean-up time
- Excellent protection against the weather and ultraviolet radiation
- USDA Approved for incidental food contact

PROPERTIES

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

ESTIMATING GUIDE

Approximate Coverage Rates:

	Sq. Ft/Gal	Sq M/Liter
1st coat	200 – 300	4.9 – 7.4
2nd coat	400 – 600	9.8 – 14.8

Texture and absorption rate of the concrete will influence coverage rate. Two coats of Tuf Seal™ Satin J35S are recommended. Allow the first coat to dry before applying the second coat.

PACKAGING

ITEM #	PACKAGE	SIZE	
		Gallons	Liters
68078	Unit (36 min.)	1	3.79
68077	Pail	5	18.93
68076	Drum	55	208.20

STORAGE

Store material in a horizontal position to prevent moisture accumulation on the drum head.

Shelf life is 24 months from date of manufacture in unopened containers. Do not store below 0°F (-18°C).

APPLICATION

Surface Preparation: Surface must be clean, dry, free of grease, dirt, paint and efflorescence (white residue). If the substrate is wet from the rain or from surface cleaning, wait a minimum of 24 hours to allow the surface to dry completely before applying. Repair all defects prior to sealing. Protect or avoid spraying Tuf Seal™ Satin J35S on glass or metal.

Mixing: Thoroughly mix the product prior to each use.

Placement: Apply Tuf Seal™ Satin J35S with low pressure spray, roller or brush. Apply uniformly without interruption to prevent streaking. Hold sprayer nozzle perpendicular to the surface and overlap each coat. In order to reduce loss of material to the atmosphere, avoid high pressures when spraying and too fine a spray. Ensure spray nozzle is allowing for a uniform spray pattern without tailings or drips. Coverage will vary with the density and texture of the surface. Apply the Tuf Seal™ Satin J35S to achieve a complete, uninterrupted film. Avoid applications that are too heavy or too light. Heavy coats can bubble and reduce moisture vapor transmission. Too light of an application may not allow material to form a complete film. Avoid application during excessively hot air or substrate temperatures (>90°F, 32.2°C).

CLEAN UP

For tools and equipment use xylol or lacquer thinner.

LIMITATIONS

FOR PROFESSIONAL USE ONLY

For applications of a sealer in an enclosed structure, Dayton Superior recommends a water based product like the Ultra Seal EF.

Sprayers and equipment should have neoprene or viton type hose and gaskets.

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

Apply to concrete that is a minimum of 7 days old.

Will interfere with the adhesion of sealants, thus avoid spraying Tuf Seal™ Satin J35S into a joint prior to installation of sealant.

Product intended for incidental or short term contact; for long term exposure applications contact Dayton Superior technical services.

Tuf Seal™ Satin J35S will not resist brake or hydraulic fluids.

Concrete Sealer

Sec
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Sealers

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

Film may show black rubber tire marks.

Will darken color of concrete surfaces

PRECAUTIONS

READ MSDS PRIOR TO USING PRODUCT

- Keep material and containers away from high heat, open flames, sparks or other sources of ignition
- Use with adequate ventilation
- Wear protective clothing, gloves and eye protection (Goggles, Safety Glasses and/or Face Shield)
- Keep out of the reach of children
- Do not take internally
- In case of ingestion, seek medical help immediately
- May cause skin irritation upon contact, especially prolonged or repeated. If skin contact occurs, wash immediately with soap and water and seek medical help as needed
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Dayton shall not be liable in contract or in tort (including, without limitation, negligence, strict liability or otherwise) for loss of sales, revenues or profits; cost of capital or funds; business interruption or cost of downtime, loss of use, damage to or loss of use of other property (real or personal); failure to realize expected savings; frustration of economic or business expectations; claims by third parties (other than for bodily injury), or economic losses of any kind; or for any special, incidental, indirect, consequential, punitive or exemplary damages arising in any way out of the performance of, or failure to perform, its obligations under any contract for sale of product, even if Dayton could foresee or has been advised of the possibility of such damages. The Parties expressly agree that these limitations on damages are allocations of risk constituting, in part, the consideration for this contract, and also that such limitations shall survive the determination of any court of competent jurisdiction that any remedy provided in these terms or available at law fails of its essential purpose.

TECHNICAL DATA SHEET

DESCRIPTION

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

USE

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

FEATURES

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

PROPERTIES

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

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

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

CHEMICAL RESISTANCE

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

REAGENT - Stain Resistance (One Hour Exposure)

Ketchup	Excellent (no effect)
Mustard	Excellent (no effect)
"Kool-Aid"	Excellent (no effect)
Grape Juice	Excellent (no effect)
Coffee	Excellent (no effect)
Chocolate Syrup	Excellent (no effect)
Tincture of Iodine	Poor
Coal Tar	Poor

Chemical Resistance - (One Hour Exposure with no Evaporation)

Used Motor Oil	Excellent (no effect)
DI Water	Excellent (no effect)
10% Sodium Hydroxide	Excellent (no effect)
10% Sodium Chloride	Excellent (no effect)
10% Calcium Chloride	Excellent (no effect)
3% Trisodium Phosphate	Excellent (no effect)
10% Ammonia	Excellent (no effect)
10% Hydrochloric Acid	Fair
Brake Fluid	Poor
100 proof alcohol	Poor
Gasoline	Poor
Skydrol	Poor

COLOR:

Milky white liquid that dries clear.

VOC

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

ESTIMATING GUIDE

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

PACKAGING

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

Ultra Seal EF

Earth Friendly Concrete Sealer

TECHNICAL DATA SHEET
CONTINUED



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Sealers

STORAGE

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

APPLICATION

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

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

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

CLEAN UP

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

LIMITATIONS FOR PROFESSIONAL USE ONLY

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

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

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

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

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

PRECAUTIONS

READ MSDS PRIOR TO USING PRODUCT

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