

WEATHER WORKER™ S-40 (J-29)

PENETRATING SILANE SEALER, NO CLEANING OR MASKING OF WINDOWS

PRODUCT DESCRIPTION

Weather Worker S-40 is a proprietary 40% silane that penetrates into concrete or masonry and provides long term weatherproofing protection. Weather Worker S-40 is a single component product that is ready to use and typically requires only one application. During application of Weather Worker S-40, no masking or cleaning of windows is necessary and metal areas are unaffected. Labor savings alone can save up to 70% of installation time.

The silane molecule can penetrate deeper into the substrate than conventional sealers and even deeper than a typical siloxane sealer. Once the silane molecule penetrates the surface it chemically reacts with, and bonds to, the concrete or masonry substrate. As a result of the strong chemical bond, silane waterproof protection will last many times longer than conventional coatings.

Weather Worker S-40 will not darken the surface or leave a visible surface film. It is ideal for aesthetic/architectural surfaces.

In independent testing, Weather Worker S-40 allowed perfect moisture vapor transmission or "breathing" of the substrate. This ability to breathe helps prevent potential freeze-thaw damage.

PURPOSE

Weather Worker S-40 provides outstanding long term weatherproof protection for all types of concrete and masonry surfaces. In independent testing done according to the N.C.H.R.P. Report 244 (for The State Highway Departments and The Federal Highway Administration), Weather Worker S-40 passed not only the water absorption phase (Series II), but also the accelerated weather phase (Series IV). During this test, Weather Worker S-40 reduced chloride ion intrusion into concrete by over 90%. This type of protection will dramatically increase the life expectancy of concrete or masonry. Weather Worker S-40 dries quickly, allowing traffic to resume quickly. Weather Worker can be applied in cold temperature, down to 32°F (0°C). Weather Worker S-40 can also be used as a primer for painting that protects the concrete or masonry and improves the adhesion of solvent based paints.

Weather Worker S-40 Protects All Types of Structures: (New and Old)

Cast-In-Place and Precast Concrete
Exposed Aggregate
Brick and Mortar
Stucco and Sandstone

Weather Worker S-40 Prevents or Inhibits:

Moisture Penetration
Attack by Deicing Salts and Chloride Ions

Reinforcing Steel and Precast Anchor Corrosion,
Mildew and Leaching
Attack by Airborne Industrial Chemicals
Spalling Caused by Freeze-Thaw Cycles
Efflorescence
Surface Scaling

ADVANTAGES

No masking or cleaning of windows
Small silane molecules result in deep penetration
Outstanding protection against deicing salts and chloride ions (over a 90% reduction)
Passes the N.C.H.R.P Report 244
Will not change the traction or skid resistance of a surface
No color change/will not darken surface
Strong chemical bond to the substrate
Can be applied down to 32°F (0°C)
Dries quickly, can be reopened to traffic within one hour
Improves adhesion for solvent based paints

Extended warranties are available with Weather Worker S-40. For details contact Dayton Superior.

MEETS SPECIFICATIONS

Active Material - 40% minimum by weight
N.C.H.R.P Report 244

- Series II - Reduced the average weight gain of 15% NaCl water by 86%.
- Series IV - Accelerated weathering - Reduced average chloride ion content by 98%.
- Vapor Transmission - Excellent - No moisture retained after 21 days.
- Freeze-Thaw-ASTM-C 672 - 50 cycles
Treated Sample - + 0
Control - 5

Alberta Infrastructure Specification B388
Federal Highway Administration Report - "Protective Systems for New Prestressed and Substructure Concrete" Report No. FHWA/ RD-86/193.

APPLICATION INSTRUCTIONS

Preparation

New concrete must be cured a minimum of 28 days. Use a wet burlap cure. Other curing compounds may not be compatible. Tuckpointing must cure a minimum of 3 days and caulking should be fully cured before application. Concrete surfaces should be clean, free of dirt, oil, grease and other contaminants. New concrete surfaces may only require sweeping, however, if construction traffic has been excessive, washing with 2,000 psi pressure cold water may be necessary. On older concrete surfaces; sandblasting, shotblasting or high pressure cold water may be used.

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

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Chemical cleaning or high pressure hot water may also be used. Rinse thoroughly after chemical cleaning. The surface pores must be opened up sufficiently to allow immediate penetration of Weather Worker S-40. A good test is to place a few drops of Weather Worker S-40 onto the clean surface. Weather Worker S-40 should be immediately absorbed into the surface.

Installation

Before application, the surface should be completely dry. Allow at least 24 hours with sunshine for drying, if surface was wet. Do not apply below 32°F (0°C) or above 100°F (38°C). Do not apply if rain is expected within 3 hours. Do not apply during windy conditions. Apply a single application of Weather Worker with low pressure spray equipment (15 psi), roller or broom. Use a fan type spray nozzle for greatest efficiency. On vertical surfaces, apply the material from the bottom of the wall upwards spraying so that it will run down the surface at least six inches below the spray pattern.

On horizontal surfaces, Weather Worker S-40 should be sufficiently applied to completely flood the surface, approximately 125 FT²/gal. depending on the porosity of the surface. Typically, the surface can be reopened to traffic in one hour, if the temperature is at 72°F (22°C) or above. Opened containers of Weather Worker should be tightly resealed when not in use. The full chemical reaction of the silane will take 5 days. Do not expect a water beading effect until after 5 days.

APPROXIMATE COVERAGE

	FT ² per Gallon	M ² per Liter
Brick	100-150	2.5-3.7
Concrete Cast-In-Place	100-150	2.5-3.7
Precast	125-150	3.0-3.7
Exposed Aggregate	100-150	2.5-3.7
Stucco	100-150	2.5-3.7
Cement Brick	75-125	2.0-3.0
Rough Stone	100-150	2.5-3.7
Smooth Stone	150-175	3.7-4.3
Glazed Brick	150-175	3.7-4.3

DRYING TIME

1 hr. at 70°F (21°C)

PACKAGING

55 gal. drums (208L), 5 gal. pails (18.9L) and 1 gal. cans 3.8L)

CLEANUP

Tools and equipment: Pump water through the spray equipment

LIMITATIONS

Apply only between 32°F - 100°F (0°C-38°C). Do not apply to a damp or wet surface. Cover and protect all grass, shrubs, plants, etc. from overspray. Do not spray onto plastic or specialty coated glass, protect all asphalt based materials and painted surfaces. The shelf life for an unopened container is one year. Keep containers tightly sealed when not in use. Store in a dry location with a temperature range between 0°F (-18°C) to 110°F (43°C) Not for use on porous concrete block.

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

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. 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

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CONTINUED

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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