

TECHNICAL DATA SHEET

DESCRIPTION

Weather Worker 40% J29 is a proprietary 40% silane that penetrates into concrete and provides long term weatherproofing protection. Weather Worker 40% J29 is a single component product that is ready to use and typically requires only one application. 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 40% J29 will not darken the surface or leave a visible surface film. It is ideal for aesthetic/architectural surfaces.

USE

Weather Worker 40% J29 provides outstanding long term weatherproof protection for all types of concrete and masonry surfaces that will dramatically increase the life expectancy of concrete or masonry. Weather Worker 40% J29 dries quickly, allowing traffic to resume quickly. Weather Worker can be applied in cold temperature, down to 32°F (0°C). Weather Worker 40% J29 protects all types of structures: (New and Old) cast-in-place and precast concrete, exposed aggregate mortar, stucco Weather Worker 40% J29 prevents or inhibits: moisture penetration, attack by deicing salts and chloride ions, reinforcing steel and precast anchor corrosion, mildew, leaching attack by airborne industrial chemicals, spalling caused by freeze-thaw cycles, efflorescence, surface scaling

FEATURES

- 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

PROPERTIES

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.

Drying time:

1 hr. at 70°F (21°C)

Note:

The data shown is typical for controlled laboratory conditions. Reasonable variation from these results can be expected due to interlaboratory precision and bias. When testing the field mixed material, other factors such as variations in mixing, water content, temperature and curing conditions should be considered.

VOC

Complies with U.S. EPA requirement with less than 600 g/L.

Estimating Guide

Coverage: 75–150 sq. ft./gal. (2.0–3.7 sq. M/L)
 Substrate texture and porosity will influence actual coverage rates. For best results, apply product to substrate saturation point.

Packaging

PRODUCT CODE	PACKAGE	SIZE	
		Gallons	Liters
69138	Pail	5	18.93
69137	Drum	55	208.2

STORAGE

The Weather Worker™ 40% J29 should be stored in tightly sealed original factory containers. Store in a horizontal position to prevent moisture accumulation on the drum head. Store in a temperature range between 0°F (-18°C) to 110°F (43°C). Shelf life of properly stored, unopened containers is 24 months.

Mock Up:

Always test each substrate with an application of Weather Worker 40% J29 to a minimum of 5 ft. x 5 ft. (1.5 M x 1.5 M) area to check for proper surface preparation, performance, water repellency and to verify the coverage rate.

APPLICATION

Surface Preparation:

New concrete must be cured a minimum of 28 days. It is recommended to cure in accord with ACI 308. If a membrane forming cure is used it will not be compatible and will have to be removed. Tuckpointing must cure a minimum of 3 days and caulking should be fully cured before application.

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Concrete surfaces should be clean, free of dirt, oil, grease and other contaminants. The surface must be sufficiently porous to allow immediate penetration of Weather Worker 40% J29.

A good test is to place a few drops of Weather Worker 40% J29 or water onto the clean surface. The Weather Worker 40% J29 or water droplets should be immediately absorbed into the surface.

Placement:

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 40% J29 with low pressure spray equipment, 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 (15.2 cm) below the spray pattern. On horizontal surfaces, Weather Worker 40% J29 should be sufficiently applied to completely saturate the surface. Typically, the surface can be reopened to traffic in one hour, if the temperature is at 72°F (22°C) or above. Broom out puddles or ponded material. Opened containers of Weather Worker 40% J29 should be tightly resealed when not in use. The full chemical reaction of the silane will take approximately 3-5 days. Do not expect a water beading effect until after 5 days.

CLEAN UP

Use water or alcohol to clean tools and equipment

LIMITATIONS

FOR PROFESSIONAL USE ONLY

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.
Keep containers tightly sealed when not in use.
Not for use on porous concrete block.

PRECAUTIONS

READ SDS PRIOR TO USING PRODUCT

- Keep material and containers away from high heat, open flames, sparks or other sources of ignition
- Use with adequate ventilation
- Wear protective clothing, gloves and eye protection (goggles, safety glasses and/or face shield)
- Keep out of the reach of children
- Do not take internally
- In case of ingestion, seek medical help immediately

- May cause skin irritation upon contact, especially prolonged or repeated. If skin contact occurs, wash immediately with soap and water and seek medical help as needed.
- If eye contact occurs, flush immediately with clean water and seek medical help as needed
- Dispose of waste material in accordance with federal, state and local requirements

MANUFACTURER

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WARRANTY

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

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