

PRODUCT DATA SHEET



SPP

STEEL PENETRATING PRIMER

CSI DIVISION

09 90 00

Utilizing worldwide resources, Aquaron Corporation has brought together a community of experts that are passionate about providing environmentally responsible solutions to challenges within all areas of concrete construction, which results in extending the life cycle of both new and existing concrete.

SCAN TO SEE THE
AQURON ADVANTAGE



DESCRIPTION

AQURON® SPP-Steel Penetrating Primer is a single component, moisture cured urethane with added aluminum flake for increased durability.

AQURON® SPP-Steel Penetrating Primer suitable for direct to metal applications with excellent adhesion properties.

AQURON® SPP-Steel Penetrating Primer penetrates intact rust down to white steel preventing future moisture travel beneath the coating.

AQURON® SPP-Steel Penetrating Primer VOC compliant in all 50 states, a single component ready to use formulation.

BASIC USE AND APPLICATIONS

AQURON® SPP-Steel Penetrating Primer is typically used over intact rusted metal where abrasive blasting is not practical, water blasting is acceptable.

AQURON® SPP-Steel Penetrating Primer can be utilized on all types ferrous and non-ferrous metal surfaces as a penetrating primer or UV resistant protective coat.

AQURON® SPP-Steel Penetrating Primer encapsulates or prevents flash rusting on all types of metal.

PRODUCT BENEFITS AND CHARACTERISTICS

- Excellent abrasion resistance.
- High solids content. >65%
- Can be used as a stand-alone coating or a primer.
- Reduced dry times.
- Lowers maintenance with extended life/performance.
- Eliminates sand blasting or grinding.
- Spray, brush, or roll to apply.
- Apply to intact rust without further electro chemical reaction under the coating.
- 3 – 5 Mil dried film thickness.
- .29 Grams VOC Content.

MEETS OR EXCEEDS THESE ASTM STANDARDS

- ASTM B 117 Salt fog chamber >15,000 hours
 - ASTM D 714 Blistering
 - ASTM D 610 Rust staining
 - ASTM D 4541 Adhesion to rusted steel / Pull test
 - ASTM D 1849 Stability
 - ASTM D 5894/D 4587/G 154/G 85/D 614/D 1654 Weathering/UV
 - ASTM D 2794 Impact resistance
 - ASTM D 7088 Resistance to below grade hydrostatic pressure
 - ASTM D 6904 Resistance to wind driven rain
 - ASTM D 3359 Water vapor transmission of materials
 - ASTM G 20 Immersion
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PRECAUTIONS

- The minimum application temperature is 40°F / 4°C at the time of application and 6-8 hours after application for proper cure.
 - The maximum application temperature is 95°F / 35°C at the time of application and for the next 6-8 hours during and after application for proper curing.
 - AVOID DIRECT SUNLIGHT APPLICATIONS ABOVE 95°F/ 35°C.
 - Apply a very thin layer of painter's solvent to the surface of unused remaining material in the bucket prior to putting the cover back on tightly, to avoid hardening of material surface exposed to air.
 - Do not allow material to dry in spray guns, CLEAN IMMEDIATELY AFTER USE!
 - Clean up with Naphtha or Painter's Solvent.
 - Do not use Acetone with **AQURON® SPP-Steel Penetrating Primer**. Acetone contains water.
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PRODUCT DATA

Moisture Cured Urethane with added aluminum flake.

VOC <.29 Grams/L

Volume of Solids >65%

Flash Point 125 F

Estimated Coverage 400 sq./ft. per gallon @ 2 mils DFT

Number of Coats – 2

Color/Finish – Grey semi-gloss

Pot Life N/A – Aliphatic RTU - keep product covered when not in use.

Recoat minimum 1 hour @ 75 F.

Recoat maximum 72 hours @ 75 F.

Dry Time 1 hour set, 6 hours final @ 75 F.

Clean up with painter's solvent.

INSTALLATION

Job Conditions

AQURON® SPP-Steel Penetrating Primer can be applied at low temperatures down to 40 F and at very high dew points if no condensation exists on the substrate surface.

Do not proceed if ambient temperatures are not at 40 F for the next 6-8 hours or if ambient temperatures exceed 95 F or if surface temperature is at or above 100 F.

Use temp gun to verify or encapsulate work environment appropriately.

The substrate prior to coating must be dry, free from loose rust, dirt, and debris.

Surface preparation is simplified by utilizing water blasting (3500-5000psi) to clean and remove loose rust using bio-degreaser as necessary.

Caution should be taken in windy conditions. Do not allow product to contact surfaces not intended for application.

Do not dilute. Use as supplied.

Store away from heat, spark, or flame in original containers.

APPLICATION INSTRUCTIONS

Can be applied by airless spray, brush, ¼” nap roller or with conventional spray equipment. Apply two separate coats to create an even color, sheen, and maximum durability. For best results recoat within 4-48 hours after initial coat.

Spray Equipment

DeVilbiss MBC 510 E Tip 765 Air Cap.
Blinks Model 18 66 Tip 63 PB Air Cap.

Airless Spray Equipment

Graco 30:1 ratio with golden gun 2000-2500psi .013-.019 tip recommended.
Speed Flo Commander 30 with H gun.

MIXING:

AQURON® SPP-Steel Penetrating Primer is a single component, ready to use product which cures by the presence of moisture.

Only open cans to be used during the work shift as needed, to avoid air exposure to material. Agitate with a mechanical agitation at slow speed to avoid incorporation of air or moisture. Do not add thinner to reduce viscosity.

Never use Acetone with **AQURON® SPP-Steel Penetrating Primer**. **Acetone contains water**. Apply a very thin layer of painter’s solvent to the surface of all unused material prior to placing the cover back on tightly, to avoid hardening of the surface, avoid prolonged exposure to air and moisture.

CLEAN-UP & SAFETY:

Caution must be taken as treated surfaces may be slippery, even after it has cured.

Wear appropriate safety breathing and eye protection, gloves, and other necessary items while handling **AQURON® SPP-Steel Penetrating Primer**.

Follow all safety guidelines for spraying solvent base materials in close confinement or other.

Always ventilate work area as needed for proper installation safety protocol.

Clean equipment using painter’s solvent or Naphtha immediately following application.

Never store spray equipment without cleaning and following manufacture's recommendations for storage between uses.

SHELF LIFE

Contents inside of packaging has 1 year shelf life, provided **AQURON® SPP** is kept tightly sealed in original container when not in use. **DO NOT ALLOW TO FREEZE.**

TECHNICAL SERVICE: For all technical information and assistance call AQURON CORPORATION (800) 342-4649. Email: Info@aquron.com

PACKAGING: **AQURON® SPP-Steel Penetrating Primer** is available in 1-gallon and 5-gallon sizes.

LIMITED WARRANTIES

AQURON PRODUCTS EFFECTIVELY ADDRESS PROBLEMS CAUSED BY MOISTURE INTRUSION WHEN PROPERLY APPLIED BY AQURON TRAINED KEY APPLICATORS. AQURON WILL WARRANT ITS PRODUCTS, AS STATED AND PROVIDED WITH EACH AQURON PRODUCT, TO BE EFFECTIVE AGAINST MOISTURE INTRUSION THROUGH SOUND CONCRETE FOR A WARRANTY PERIOD OF ONE YEAR.

THE FOLLOWING LIMITATIONS APPLY TO THE AQURON PRODUCT WARRANTIES:

- **ALL PRODUCTS SHALL BE APPLIED BY AQURON TRAINED KEY APPLICATORS IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS FOR THE WARRANTY TO BE EFFECTIVE.**
- **ALL WARRANTY REMEDIES ARE LIMITED TO REFUND OF THE PURCHASE PRICE FOR THE AMOUNT OF PRODUCT COVERING THE AFFECTED AREA • MECHANICALLY RELATED MOISTURE MIGRATION IS SPECIFICALLY EXCLUDED FROM ANY AQURON WARRANTY.**
- **ALL OTHER WARRANTIES, INCLUDING BUT NOT LIMITED TO WARRANTIES FOR FITNESS FOR USE OR FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY DISCLAIMED, EXCLUDED AND WAIVED TO THE FULLEST EXTENT ALLOWED BY LAW.**

IT IS THE RESONSIBILITY OF THE KEY APPLICATOR TO DETERMINE FITNESS FOR USE.

For all Limited Warranty questions or for warranty service, contact Aquron at the numbers below:

AQURON CORPORATION

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