

Conpro Shield QS2

**Brush, roller
or spray applied,
water based
clear gloss sealer.**

WHERE TO USE
**Accentuate the character
and protect stone,
exposed aggregate block,
concrete, slate, granite and brick.**

PERFORMANCE CHARACTERISTICS

Long term protection

- Passes ASTM E514.

Environmental protection

- Mitigates carbonation.
Effective chloride ion screen.
UV stable.
Unaffected by
microbiological activity.

Breathability

- Water vapor permeable.

Enhances appearance

- Highlights the different colors and shades in substrate.
Gloss finish brightens surface by altering light reflectance.

Increase durability

- Repels water from penetrating substrate. Most damage to concrete, masonry and stone is due to water entry.

VOC compliant

- Meets VOC emission standards for architectural coating.

Environmentally friendly

- Water based technology, low odor, easy handling and clean up.

SURFACE PREPARATION

- Substrate must be clean and free of loose debris, oils, paints, previously applied water repellents or any substance that can interfere with penetration.
- Substrate must be dry; moisture in substrate will cause material to have a milky film whenever treated surface becomes wet.
- If acid washing is used to prepare substrate, neutralize with 1 part ammonia to 3 parts water solution flooded over the surface. Residual acid in the substrate will cause *Conpro Shield QS2* to form a milky film instead of a clear gloss finish. If this occurs the material must be removed.

PRIMING

- Priming is not necessary.

MIXING

- Stir until homogenous.

APPLICATION

- Always apply to a test area to ensure *Conpro Shield QS2* will not affect the appearance of the surface due to reaction with previously applied materials or by drawing surface contaminants into the substrate.
- Material appears as a milky haze when applied and becomes clear within one hour at 72°F.
- For roller applied applications use a 3/8 - 1/2 inch nap roller depending upon surface texture.
- For best spray results apply with low pressure or airless spray equipment with fan tip.
- Fringe, edge and border areas should first be cut in with a brush.

- Work to natural break points in the structure.
- Always keep a wet edge.
- For horizontal applications begin at one edge and work backwards towards the opposite edge.
- Apply enough material to saturate the surface, but do not allow material to pond. Brush out ponded material before surrounding area dries.
- Single coat coverage will seal and provides a gloss finish. Subsequent applications will increase gloss.
- Allow 5 hours @ 72°F and above; 10 hours @ 50 - 72°F; and 24 hours @ 45 - 50°F between applications.
- Follow the same temperature guidelines as above for opening to foot traffic.
- Allow a minimum of 24 hours curing before opening to light vehicular traffic.

CURING

- Protect from moisture for 24 hours. Material is fully cured in 3 days.

CLEAN UP

- Clean tools, equipment and adjacent areas with water immediately after application. Clean glass with glass cleaner before material can dry.

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COVERAGE/YIELD

- Coverage will vary depending upon porosity of substrate.
- Exposed aggregate –
Concrete – 100 - 200 ft.²/gal.
Stone – 125 - 250 ft.²/gal.
Brick – 200 - 300 ft.²/gal.

PRODUCT HANDLING

Packaging

- 1, 5 and 55 gallon plastic containers.

Shelf Life

- 18 months in unopened containers.

Storage

- Protect from freezing, keep off floor and out of direct sunlight.

DISPOSAL

- Dispose of material in accordance with local, state or federal regulations.

LIMITATIONS

- Do not dilute.
- Use NIOSH approved respirator, safety glasses, gloves and complete skin cover during application.
- Do not apply if precipitation is forecast within 24 hours.
- Do not apply to damp surfaces.
- Neutralize surfaces after acid washing – refer to *Application*.
- Do not apply unless substrate and ambient temperature are at least 45°F.
- Do not spray in high winds.
- Always apply a sample to determine suitability to substrate.
- Do not use on tile or any other surface that is so dense that it prevents the material from penetrating.
- Additional applications decrease slip resistance.

HEALTH AND SAFETY

- Product is alkaline.
- Do not ingest.
- Avoid breathing fumes.
- Avoid contact with skin and eyes.
- Refer to Material Safety Data Sheet (MSDS) for additional information.

FIRST AID

- If swallowed contact a medical professional immediately. Do not induce vomiting or give anything by mouth. Only induce vomiting if advised to do so by a medical professional.
- In case of skin contact, wash thoroughly with soap and water. For eye contact, flush immediately with a high volume of water for at least 15 minutes and contact a medical professional. For respiratory problems, remove person to fresh air. If respiratory difficulty persists, contact a medical professional.

TECHNICAL DATA

Physical state and appearance		
Wet		Milky – white – liquid
Dry		Clear – glossy – plastic-like film
Base		Aqueous
Polymer		Carboxylated styrene acrylic
pH		9.5 - 10
Percent solids by weight		33.9%
Flash point	ASTM D56	150°F Seta cc
Volatile organic content – VOC	ASTM D3960	40.5 g/L
Density of liquid coatings	ASTM D1475	8 lbs./gal.
Water vapor transmission	ASTM D1653 wet cup	11 perms – 1 coat
Accelerated weathering – QUV	ASTM G154	2000 hours – UV-B cycled with condensation – no effect
Resistance to chemicals	ASTM D1308	Motor oil/Vegetable oil – excellent Soil/Grease/Ketchup – excellent
Water penetration and leakage	ASTM E514	100% reduction
Freeze/thaw stability	ASTM C932	Pass – 5 cycles @ 15°F
Heat stability	ASTM C932	Pass – 4 weeks @ 120°F
Gloss – concrete paver	ASTM D523	85°F untreated 1.5 – treated 11.0 60°F untreated 1.5 – treated 11.0

FOR PROFESSIONAL USE ONLY

Conproco Corp. warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current technical data sheet if used as directed within shelf life. User determines suitability of product for use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. May 2008.

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