

# CANYON TONE CLEAR

## 5% Transparent Water-Based Sealer

### Technical Data & Application Instructions

#### PRODUCT DESCRIPTION

CANYON TONE CLEAR, a silicone emulsion with reactive silane, is a deep penetrating concrete/masonry sealer and water-repellent treatment. By chemically locking into the substrate, CANYON TONE CLEAR provides a long term, UV stable protective barrier against the intrusion of moisture and chloride salts. Its microscopic penetration qualities allow a single coat application that imparts a clear, non-yellowing water repellent treatment to concrete and masonry substrates without any noticeable change in color or surface sheen.

CANYON TONE CLEAR incorporates reactive silane and a silicone emulsion into a single product. The silane penetrates deeply into the substrate, chemically linking into the concrete or masonry matrix for permanent moisture, chemical and salt protection. The silicone emulsion bonds tightly to the surface for added water-repellency. This combination is superior to pure silicone, silane or siloxane sealers alone.

CANYON TONE CLEAR is also supplied as a concentrate, which is reduced with water at the jobsite to achieve the desired dilution. Consult separate literature entitled CANYON TONE CLEAR Concentrate Technical Data & Application Instructions for additional information on the concentrated version.

#### BASIC USES

CANYON TONE CLEAR protects exterior, above-grade vertical and horizontal concrete, masonry, aggregate, brick and stucco surfaces against the effects of water, de-icing chemicals, chloride-ion intrusion, freeze/thaw exposure, spalling, airborne pollution and acid rain. It is used on building exteriors, parking garage floors and ramps, walkways and decks, and other areas where a clear, non-yellowing protective sealer is required. Because CANYON TONE CLEAR is water-based, it can be used safely on interior applications without toxic or solvent odors.

#### TYPICAL PROPERTIES

TABLE I

Property	Value	Method
Active Content	5% (±.5)	ASTM D5095
Viscosity	5-15 cps @ 70°F	ASTM D2196
Weight per Gallon	8.3 lbs (3.8 kg) (±.2)	ASTM D1475
Dry Time	15 Minutes	ASTM D1640
Cure Time	1 Hour	ASTM D1640
Accelerated Weathering	4,400 Hours No Effect	ASTM G53

#### ADVANTAGES

- Single Coat Application – CANYON TONE CLEAR is applied in a one-coat, surface flooding treatment.
- Single Package – No catalyzation required. Easy application by brush, roller or spray.
- Water-Based – No solvents or solvent odors. Easy cleanup with soap and water. Meets all VOC requirements.
- UV Stable – No discoloration or yellowing with age.
- Retains Natural Appearance – No glaze, gloss or visible sheen on treated surfaces.
- Protects from airborne pollution and acid rain.
- Prevents darkening and discoloration of treated surfaces during periods of rain.
- Protects against freeze/thaw and spalling.
- Protects against efflorescence or migrating salts.
- Can be applied by brush or roller, as well as by airless, conventional or pump sprayer.
- Breathing System – Allows moisture vapor to escape from the building interior.

## **SURFACE PREPARATION**

All surfaces must be structurally sound, clean, dry, and fully cured, and free from dust, curing agents or form release agents, efflorescence, scale or other foreign materials. All previous coatings on the substrate must be completely removed, including coatings that are tightly adhered to the surface.

**CANYON TONE CLEAR** is a deep penetrating sealer. It must be able to penetrate the surface to which it is applied to be effective. Surfaces such as glazed brick, smooth dense brick, natural rock, glass reinforced concrete and smooth dense concrete must be sandblasted or etched prior to application of **CANYON TONE CLEAR** to allow for maximum penetration.

**CANYON TONE CLEAR** has a neutral pH, so it will not etch exposed metal or glass surfaces, nor will it harm most ground vegetation.

## **MIXING INSTRUCTIONS**

**CANYON TONE CLEAR** is supplied in a 5% solids by volume concentration, which is the standard dilution for most applications. If a higher solids dilution is desired for increased water-repellency on porous substrates, Consult separate literature entitled **CANYON TONE CLEAR Concentrate**, which can be diluted to a 14% to 21% active content. Blend 1 part concentrate with 4 parts water to achieve a 14% concentration or 3 parts water to achieve a 21% concentration. Due to the increased water repellency provided by higher active content concentrations, recoatability characteristics are diminished.

## **ESTIMATED COVERAGE RATES TABLE II**

Substrate	Square Feet/Gallon Estimated Total
Smooth Concrete	200 to 250 (4.9 to 6.1 m <sup>2</sup> /l)
Exposed Aggregate	150 to 200 (3.7 to 4.9 m <sup>2</sup> /l)
Masonry	100 to 150 (2.4 to 7.3 m <sup>2</sup> /l)
Horizontal Concrete Decks	100 to 150 (2.4 to 7.3 m <sup>2</sup> /l)

*NOTE: The above coverage rates are provided for estimating purposes only. Absorption rates will depend upon the texture and porosity of the substrate. Allow for extra surface area when estimating coverage for fluted, raked, split-face or other textured surfaces.*

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## **APPLICATION INSTRUCTIONS**

**CANYON TONE CLEAR** can be applied by brush, roller, airless or conventional spray, and also by low pressure pump-style sprayers. The most effective application method is by low pressure airless spray (20 psi/137 kPa). The spray gun should have a fan-type nozzle with a maximum orifice size of .035" (.9 mm), and should be held no more than 18" (.5 m) from the surface during application.

On horizontal surface applications, **CANYON TONE CLEAR** should be uniformly applied to saturate or flood the surface. After approximately 20 minutes, any remaining puddles should be rolled out or mopped up. Vertical applications should be treated from the bottom of the wall upwards. **CANYON TONE CLEAR** should be uniformly sprayed on the wall to the point where excess solution runs 6" to 8" (15 to 20 cm) below the spray pattern on each pass. Any excessive runs or drips should immediately be rolled into the surface. Care should be taken to complete each wall section entirely before work stoppage. Application should be continuous, maintaining a wet edge to wall joints or corners. **CANYON TONE CLEAR** should be applied in a single coat application only.

## **LIMITATIONS & PRECAUTIONS**

**CANYON TONE CLEAR** should not be applied over wet substrates. Proper penetration will not occur if standing water or excessive wetness blocks absorption. However, concrete and masonry wall surfaces can be coated while slightly damp. In locations that are typically hot and arid, it can be beneficial to pre-dampen the wall surface prior to application of **CANYON TONE CLEAR**. The added moisture will aid in proper penetration and cure of the sealer.

**CANYON TONE CLEAR** is a waterborne sealer. Care must be taken during storage and shipment to ensure that temperatures do not fall below 32°F (0°C). Do not apply **CANYON TONE CLEAR** below 50°F (10°C). Cool temperatures and high humidity will retard cure.

**CANYON TONE CLEAR** is a low viscosity material designed to provide water-repellency without disturbing the natural color or texture of the substrate. **It is not designed to waterproof concrete block or other porous substrates under wind driven rain or other severe weather conditions.**

**CAUTION!** Can cause irritation of nose, throat and lungs. Can cause nausea and headache. Prolonged or repeated breathing of vapor or spray mist may be harmful. Use a respirator for protection from vapor or spray mist. Avoid eye and skin contact. Do not take internally. Wash thoroughly after handling and before eating or smoking. Keep container closed when not in use.

For additional information on safety requirements, refer to OSHA guidelines and **CANYON TONE CLEAR** Material Safety Data Sheet.