

CANYON TONE CLEAR CONC.

Transparent Water-Based Sealer Concentrate

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 and “beading” ability. This combination is superior to pure silicone, silane or siloxane sealers alone.

CANYON TONE CLEAR CONCENTRATE must be reduced with water at the jobsite to achieve the desired dilution. CANYON TONE CLEAR is also available in a pre-diluted version. Consult separate literature entitled CANYON TONE CLEAR Technical Data & Application Instructions for additional information on the pre-diluted 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 and 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 | 100% | ASTM D5095 |
| Viscosity | 5-15 cps @ 70°F | ASTM D2196 |
| Weight per Gallon | 8.3 lbs (±.2) | ASTM D1475 |
| Dry Time | 15 Minutes | ASTM D1640 |
| Cure Time | 1 hour | ASTM D1640 |
| Accelerated Weathering | 4400 hrs 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, 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 CONCENTRATE is diluted with water at the jobsite to the desired concentration. The standard dilution for most applications is 1 part **CANYON TONE CLEAR CONCENTRATE** to 9 parts water. This will result in a 7% active content. One gallon (3.8 l) of **CANYON TONE CLEAR CONCENTRATE** will therefore yield 10 gallons (38 l) of diluted product, 5-gallons (19 l) will yield 50 gallons (189 l) and a 55-gallon (209 l) drum will yield 550 gallons (2,079 l). If a higher solids dilution is desired for increased water-repellency on porous substrates, **CANYON TONE CLEAR CONCENTRATE** can be diluted up to a 21% active content concentration. Blend 1 part concentrate with as little as 4 parts water to achieve the desired dilution. 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 ² /l) |
| Exposed Aggregate | 150 to 200 (3.7 to 4.9 m ² /l) |
| Masonry | 100 to 150 (2.4 to 7.3 m ² /l) |
| Horizontal Concrete Decks | 100 to 150 (2.4 to 7.3 m ² /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

Once diluted, **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). The spray gun should have a fan-type nozzle with a maximum orifice size of .035" (.86 mm), and should be held no more than 18" (46 cm) 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 inches 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 CONCENTRATE 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 CONCENTRATE** Material Safety Data Sheet.