



Sections

09 09 96 00
High Performance Coatings



Technical Data Sheet

SIGNATURE 410

HIGH GLOSS DESIGNER TOP COAT

Description

A single-component, spray-on clear coat that chemically bonds to concrete or epoxy—no sanding or grinding required. Its self-leveling formula creates a durable quartz mineral shield that protects against chemicals, UV, abrasion, graffiti, mold, mildew, salts, acid rain, and oxidation. Engineered to enhance and protect colors, it delivers a sleek, high-gloss, mirror-like finish with long-lasting performance.

Appearance/Color

Available in clear.

Finish

High -Gloss

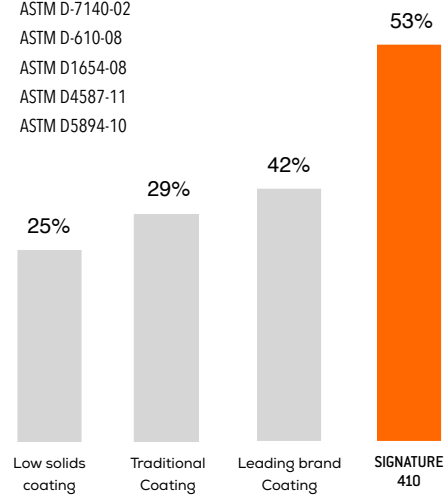
Coverage

400-500ft²/per .85 gallons.

WEATHERING / ACCELERATED EXPOSURE

Meets the requirements of:

ASTM G85-11
ASTM D-7140-02
ASTM D-610-08
ASTM D1654-08
ASTM D4587-11
ASTM D5894-10



Percentage Improvement vs. Control



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TECHNOLOGY // ADVANTAGES

ADVANTAGES

- Excellent Abrasion Resistance
- Excellent Impact Resistance
- Excellent chemical resistance
- High strength, tenacious adhesion
- Easy to Apply on epoxy, concrete or metal floors

CURE TIMES (75°F) 50% RH

Tack Free (dry to touch): 2-3 hours

Recoat or Topcoat: 10-20 minutes

Light Foot Traffic: 8-12 hours

Heavy Foot Traffic: 3 days

Full Cure (Heavy Traffic): 7 days

TYPICAL PROPERTIES

Chemistry: Quartz

Color: Clear

Finish: High-Gloss

Packaging: .85 Gallons (3.2 Liters)

Coverage: 400-500 sq. ft.

Application Method: Low Pressure Sprayer / Microfiber Cloth.

Application Temperature: 45°F-105°F

Number of Coats: 1

VOC Content: <100 g/L

Specific Gravity: 7.36 lbs/gal

Flash Point: 15F / -9C

Shelf Life: 12-24 months @ 77F / 25C

Film Hardness Taber (ASTM D3363): 39.11

SUBSTRATES

- Concrete
- CMU
- Epoxy
- Iron
- Steel
- Aluminum
- Copper
- Bronze



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APPLICATION

SUBSTRATES:

For use on concrete (cured 28 days) or previously coated substrates. Ideal for use on metallic or solid color epoxy coatings. Not for use over silicone or modified polymer grout.

COVERAGE:

One (1) bottle (.85 gallons) will cover up to 400-500 sq. ft. Coverage varies based on porosity, texture of the substrate, and application method.

SURFACE PREPARATION:

Surface must be clean and completely free of loose particles, grease, oil, or any substance that would interfere with proper bond. When using Signature 410 on top of an epoxy coating, apply during epoxy re-coat window (roughly 12-18 hours). Protect all adjacent areas not meant for treatment. Do not apply to surfaces that are frozen, wet or have standing water. Verify uniform surface absorbency with a light water spray. If surface does not wet uniformly, use a no-residue cleaner, auto scrubber, or other process to remove contamination. Be sure surfaces are completely dry prior to applying Signature 410.

APPLICATION:

Test in an inconspicuous area to ensure satisfactory results. Mix in original container for one (1) minute (by hand) using stir stick. DO NOT MIX AT HIGH SPEED. DO NOT DRILL MIX. Be sure to agitate nano-particles that have settled and to prevent separation of material, we recommend mixing periodically (every 10-15 minutes).

IF SPRAYING (RECOMMENDED):

Use a low-pressure, solvent-resistant sprayer with a fine mist cone tip. Hold 8-12" from the surface and spray in circular, overlapping passes (50%) for a full, even, mirror-like film. Optional Smoothing Step (recommended): Immediately after spraying, a second person can follow with a flat microfiber pad pre-soaked in

Signature 410. Glide the pad in straight line, overlapping previous passes (25%) from wall to wall. Do not lift the pad or use random motions.

IF ROLLING:

Using a white, ultra-smooth (or 3/8 - 1/4 inch) high-density roller. Begin by pouring Signature 410 into a roller pan and then fully saturate roller. Apply using a cross-pattern—first left to right, then up and down—working quickly as the coating dries rapidly. For a smoother finish, avoid applying pressure on the roller. Use control joints or natural breaks as breaking points between mixes.

BRUSHING:

Using a high-quality China bristle brush, apply Signature 410 in a cross-pattern—first up and down, then left and right. For optimal results, avoid overworking the coating, as it dries quickly. Apply with light pressure, using the tip of the brush to gently smooth out the coating. The desired wet film thickness (WFT) should be approximately 2.0 to 2.5 mils. Use control joints or natural breaks as breaking points between mixes.

DRYING TIME:

Dry-to-touch in 2-3 hours. Re-coat within 10-20 minutes. Light Traffic in 8-12 hours. Allow 5-7 days for full cure.

CLEANUP:

Clean equipment immediately after use. Use acetone, methyl acetate, or similar. Follow solvent manufacturer's safety instructions.

TEMPERATURE LIMITS:

Surface and air temperatures must be at least 45°F during application. Surface and air temperatures should not exceed 105°F. Floor temperature must be at least 5 degrees over the current dew point. The relative humidity (RH) of the slab must not exceed 75%.



Technical Data Sheet

APPLICATION

PRECAUTIONS/SAFETY

Refer to the SDS sheet before use. Safety precautions must be strictly followed during storage, handling, and use. Personal Protective Equipment (PPE) should be worn at all times. PPE will include (but is not limited to): Safety glasses and high-quality nitrile gloves.

MAINTENANCE

To maintain the appearance and extend the life of the newly sealed surface, it is imperative to have a routine maintenance program. Dirt and debris that is tracked over a finished floor will quickly scratch and dull the surface. Place walk-off mats at entrances. Sweep and mop/scrub floors regularly using soft bristles/pads and a mild cleaner. Some cleaning products and equipment or improper use of these can damage a surface. Remove spills quickly to minimize damage and/or stains. For systems that support parked vehicles or other heavy items on rubber wheels, place a small piece of nonporous material, such as sheet metal or plexiglass between the tires and floor to prevent tire marks. Reapplication may be necessary in heavy traffic areas.

SHELF LIFE

One (1) to two (2) years when stored indoors at 55°F – 85°F (13°C – 29°C) in a dry location with humidity below 65%. Do not freeze materials.

CONTACT

KreteTek Industries Inc.

66 River Road
Hudson, NH 03051

www.Ghostshield.com

Customer Service and Technical Support
1-855-KreteTek (1-855-573-8383)

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For professional use only.

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