SEALERS AND COATINGS

TECHNICAL DATA SHEET

HS 200

PREMIUM ACRYLIC SEALER

View More Info for this Product at
www.surecretedesign.com/product/stamped-exterior-clear-sealers

HS 200

Premium Acrylic Sealer

SURECRETE®

PACKAGING
1 gal. (3.79 L) can
5 gal. (18.9 L) pail
55 gal. (208 L) drum

COVERAGE
Varies upon substrate: approximately 200 - 240 ft² per gal., per coat (18.6 – 22.3 m² per 3.8 L, per coat) 6.7 - 8 mils wet; 1.3 - 1.6 mils cured.

SHELF LIFE
Under normal, moisture free conditions 2 years for unopened container.

DESCRIPTION

HS 200 is a premium, high performance, single-component silane, acrylc 20% solids, 600 g/l, sealer designed for concrete or any cement based product. As with most acrylics it is vapor permeable and readily applies outside. However, ***HS 200*** is specially formulated for extreme climates. The unique silane formulation creates the nano-sealer technology that deeply penetrates and reacts internally with cement, slowing moisture migration and efflorescence and intensifying bond capacity. Even in warmer climates ***HS 200***'s slower evaporating solvents will not "cotton candy" before the applicator can finish a tight, smooth surface. A single coat application will provide a UV shield, enhance the beauty, and protect the surface of driveways, garage floors, patios, walkways, pool decks, and stucco.

SURFACE PREP

The principles for surface preparation for ***HS 200*** are aligned with other coating systems placed on concrete or cement based products, the substrate must be:

1. Clean: The surface must be free of dust, dirt, oil, grease, paints, glues, non- acrylic sealers, curing agents, efflorescence, chemical contaminants, rust, algae, mildew and other foreign matter that may serve as a bond breaker.

2. Cured: Any concrete must be sufficiently cured to have complete hydration, approximately 28 days depending on temperatures & humidity. Some cement-based products may cure sufficiently within 2 – 3 days.

3. Sound: No system should be placed on concrete or cement-based products that are flaking or spalling. If the surface is delaminating, then diamond grinding, shot blasting, or other mechanical means should be used to remove the delaminating areas.

4. Profiled: Proper profile should follow the standard established by the International Concrete Repair Institute (ICRI) Technical Guideline no. 03732 for Concrete Surface Profile (CSP). The established profile is categorized as CSP-1.
The most common means to properly profile many concrete slabs (especially exterior slabs) is through the use a pressure washer equipped with a turbo-tip and ***SCR*** (see ***SCR*** TDS). In one step ***SCR*** profiles, cleans, and provides a measure of degreasing. Some concrete slabs that are hard troweled may require more aggressive profiling through diamond grinding or shot blasting.
Some cement-based products do not require profiling.

Recoats
HS 200's silane, acrylic formula creates the premier choice to reseal or refresh an existing decorative concrete project. The surface should be cleaned with a pressure washer and ***SCR*** (see ***SCR*** TDS).

a) Any old, loose and flaky sealer that is still present must be removed.
- Chemically: ***Fast-Strip Plus***, ***Enviro-Strip*** (see appropriate TDS), or other commercial stripper.
- Mechanically: diamond grinding or shot blasting

b) This product should only recoat an existing solvent based acrylic. Determine a substrate's unknown existing sealer by placing a paper towel saturated with xylene over a small area. Cover the towel with plastic and allow it to remain in place for 15 minutes. Solvent based acrylic may feel slippery to the touch, but water based acrylic turns into a slimy mess that can be scraped off easily.

c) Before recoating, prepare on-site a small test area on the intended substrate to establish compatibility of solvents and avoid blistering and delamination.

d) Recoat applications may be complete with a single coat, always evaluate surface to see if a second coat is needed. Best performance is achieved through thin coat(s).

APPLICATION

Planning
1. Product is flammable. Interior applications, turn off all fuel burning appliances and pilot lights.
2. Provide for ventilation so that vapors do not accumulate.
3. Select appropriate PPE (personal protection equipment). Use of a NIOSH approved respirator may be required. Refer to SDS.

Mask all areas requiring protection.

Temperature / weather
1. Avoid application on extremely cold or hot days or during wet, foggy weather.
2. Apply with ambient and surface temperatures ranging above 50°F (10°C) and below 90°F (32°C) and that will remain within ranges for at least 24 hours following application.
3. Do not apply outside if precipitation is forecast within 24 hours of application.
4. Substrate must be dry throughout all steps.

First coat

Rolling
1. Utilize a bucket grid to apply in a thin film.
2. Roller covers require a solvent resistant core.
3. The correct nap size varies due to texture. For example ¾" is recommended for heavy textured patterns, while ¼" mohair is

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recommended for very smooth surfaces.
4. Do not allow puddling.
5. Exercise care to eliminate roller tracks through back rolling.

Airless Spraying

1. Airless sprayer should be capable of a minimum .5 gpm discharge.
2. Tip size should be approximately .015" - .019" with 65° fan.
3. For horizontal surface utilize an 8" – 10" extension.
4. Maintain a wet edge between passes.

Pump-up Sprayer

1. Select solvent resistant sprayer.
2. Select fan or cone tip as preferred that can pass 20% solids product.
3. Have sufficient tips on hand to allow clean-up that will not interrupt application.
4. If necessary, backroll sprayed area to lay product flat.

When first coat is able to be walked on, it may receive a second coat. While many applications are complete with a single coat, always evaluate surface to see if a second coat is needed.
For single coat system: Allow 24 hours cure time prior to foot traffic. Allow 72 hours cure time prior to vehicular traffic.

Second Coat

Applies identical to first coat.
Allow 24 hours cure time prior to foot traffic.
Allow 72 hours cure time prior to vehicular traffic.

SLIP RESISTANCE

Two recognized US agencies have issued directives on minimum coefficient of friction, OSHA (Occupational Safety and Health Administration) and Department of Justice through the ADA (Americans with Disabilities Act). ADA is the more stringent of the two. ADA directs that accessible walkways have a minimum coefficient of friction of 0.6. Ramps have been directed to be 0.8. The applicator assumes the responsibility to meet these standards. Areas that may become wet, oily, or greasy require special attention. Refer to ***SureGrip (Additive)*** TDS and its accompanying coefficient of friction table.

SUITABILITY SAMPLE

Due to condition specific sites, always prepare an adequate number of test areas. Wear protection system and aesthetic suitability for products' intended use should be included. On site sample approval is especially critical on substantial, heavy traffic situation or custom coloration.

CLEAN-UP

Before ***HS 200*** dries; spills and tools can be cleaned up with a solvent such as xylene or acetone.

DISPOSAL

Contact your local government household hazardous waste coordinator for information on disposal of unused product.

LIMITATIONS

- For use by trained professionals that have read the complete SDS.
- Product performs best upon a concrete slab that has no ponding of standing water.
- When masking use caution while taping to a floor that is not completely cured, especially at edges, as delamination may occur.
- Protect from metal wheel traffic and some furniture where point of contact may be damaging.
- Chemicals used in tire manufacturing may be detrimental to all sealers from vehicular parking.

WARRANTY

Warranty of this product, when used according to the directions, is limited to refund of purchase price, or replacement of product (if defective), at manufactures/seller's option. SureCrete Design Products shall not be liable for cost of labor or direct and/or incidental consequential damages.

CAUTIONS

KEEP OUT OF REACH OF CHILDREN. Product is flammable. Avoid sources of ignition. Keep areas ventilated to prevent the accumulation of vapors. **Inhalation:** Use NIOSH approved respirator for organic vapors. **Skin Contact:** Skin contact may cause irritation. Remove contaminated clothing and wash affected skin with soap and water. Launder clothing before reuse. If symptoms persist, seek medical attention. **Eyes:** Wear safety eye protection when applying. If contact occurs, flush eyes with water for 15 minutes, seek medical attention.

DESCRIPTIVE DATA

Appearance (cured)	Clear gloss
Appearance (wet)	Clear
Water Resistance	Excellent, beads water
Mechanical Stability	Excellent
Light Stability	Excellent
Solids	20%
Diluent	Hydrocarbons
Storage Stability	2 years (unopened container)
Odor	solvent
Application Temperature	50°F – 90°F (10° - 32°C)
Nano Technology	Silane Formulation
VOC content	600 g/L

TEST DATA

Test	ASTM (if applicable)	Results
Blush	4 hr. dry / 18 hr. immersion	No blush
Adhesion	D-3359	
Dry Concrete		Excellent
Wet Concrete		Excellent
QUV accelerated weather testing	G-53	250 hr. – no blistering, no yellowing
Abrasion resistance		12.5 grams loss
Block resistance	D-4946	Excellent
Heat stability @ 120°F (49°C)	D-1849	Excellent
Film formation @ 40°F (4°C)		Passed
Water absorption		2.4 g /m^3
Pencil hardness	D-3363	HB-H
Hot tire pick-up		Passed*

*Under extreme circumstances delaminating could occur. All tire manufacturers were not tested. Chemicals used in tire manufacturing may be detrimental to all sealers from vehicular parking.

CHEMICAL RESISTANCE

TESTING ASTM D-1308	
Transmission fluid	Resistant
Gasoline	Remove immediately
Formula 409	Resistant
Motor oil	Resistant
Brake fluid	Remove immediately

SAFETY DATA SHEETS

The following are links to all available safety data sheets related to this product:

- sealers-hs-260-sds.pdf

MANUFACTURER PART

1 - gallon can (3.79 L)	SKU # 55104073
5 - gallon pail (18.9 L)	SKU # 55104003
55 - gallon pail (208 L)	SKU # 55104011