



Sealer Prime SCS-002SP

DESCRIPTION:

The Sealer Prime is a heavy duty, high solids, modified acrylate sealer that incorporates a nanotechnological free radical absorber for unparalleled UV protection. SCS-002SP also contains an active silanol group that enhances adhesion from substrate to sealer and from sealer to topcoat. This low VOC water-based sealer can be used on all mineral products and will enhance the esthetics of certain mineral substrates if left uncoated. This novel blend infuses and penetrates the capillaries and pores without producing a heavily coated appearance. SCS-002SP produces an excellent water-resistant, UV stable and highly adhesive clear treatment in one or two coats depending on the porosity of the substrate and desired adhesive properties. The SCS-002SP is commonly used as a priming sealer for other topcoat systems used on porous mineral surfaces. The SCS-002SP will create a breathable film that does not allow topcoats solvent to permeate thereby maintaining the color integrity of the substrate.

FINISH:

Flat after cured.

PERFORMANCE CRITERIA:

Water Absorption	ASTM C 67 and 642-90:	4% max. after 24hr./75F
Water Vapor Transmission Rate	ASTM E 96-56:	11.82 Perms
Water Vapor Transmission	ASTM D1653-93:	4.97 grains/hr/ft ²
Household Chemicals	ASTM D1308-97	Pass

SURFACE PREPARATION

ALL SURFACES:

The surface is to be dry, clean and free of any foreign matter including corrosion, hydrocarbons, moisture, ice, efflorescence, silicones, fluoro-products, etc. Some porous substrates may require more than one coat; always test the coatings adhesion and performance before a full application. Porous surfaces to be pressure washed must be allowed to dry for a minimum of 72 hours. After rain, allow 48 hours to dry. New concrete should be allowed to cure for 28 days. All caulking and finishing should be done before SCS-002SP application. Prior, protect all glass, vehicles and surrounding surfaces from over spray. Always apply to a test area before proceeding with entire application.

APPLICATION

SURFACE TEMPERATURE:

40F (4C) to 100F (38C). Surface should be dry (at least 5F (3C) above the dew point) with no moisture or frozen moisture within the substrate or on the surface. The product will cure slower in lower temperature.

APPLICATION:

SCS-002SP is designed for above grade use only. When spray applying hold spray tips 4-12 inches from the surface depending on application and substrate, start at the top and work down the substrate chasing the run with an overlapping horizontal spray pattern. Take special care to saturate joints, cracks and large pores. When first applied, the emulsified resins appear milky white. The micro emulsions will then coalesce drying clear and colorless. The milky appearance should last no longer than approximately 30 minutes.

When applying the SCS-002SP for use as a prime coat, always test an inconspicuous area to determine how fast the sealer is absorbed into the substrate. After the test application, let dry for 30-60 minutes and then feel the dry film on the substrate. Press your thumb firmly against the dry film and pull back slowly; one should feel a sticky sensation. If this is not experienced the SCS-002SP has not provided a sufficient film and an additional coat should be applied.

Water Bead Test: Spray water onto the dry film with a trigger spray bottle. Water will either bead on the surface or darken/wet out the underlying substrate, which indicates absorption and an additional coat should be applied. If the water beads and does not absorb or darken the substrate the film is providing some moisture protection. For further and more in depth technical testing use a Rilem Tube to test the film's moisture resistance. If the SCS-002SP has passed the Water Bead and/or Rilem Tube test(s), the coating is intact and ready for an application of a topcoat.

*For more on Application Procedures see the Product Limitations section

ESTIMATED COVERAGE RATES:

Surface	Square Feet per Gallon	Surface	Square Feet per Gallon
CMU - Fluted:	35-65	Stucco	60-80
CMU - Split face:	30-60	Rough Wood	50-80
CMU - Smooth:	80-100	Smooth Wood	80-125
Rough/cracked:	30-60	Wood Shingles	70-90
Exterior Brick	60-80	Smooth Stone	100-125
Concrete	80-100	Metal(s)	150-300
Concrete Block	80-100	Smooth Painted	150-170
		Rough Painted	100-150

MIXING:

Mix well by shaking the product. Ensure there is no settled/cured material on the film or within the container. Cured or foreign matter must be removed prior to application.

POT LIFE & THINNING:

Do not thin. Pot life can vary depending temperature and humidity but typically open product can be used for up to 1 month if sealed and stored according to specification.

APPLICATION EQUIPMENT:

Mix or shake well before application. Ensure product is consistent in thickness after stirring. Apply via HVLP, airless sprayer, pump sprayer, roller or brush. Use a flood coat and apply liberally.

Roller: Use ½” synthetic nap roller. To a porous substrate apply from the bottom up. Excess buildup of product can accumulate on roller. Allow the product to saturate and flood the top of the roller and apply slowly as this will allow product to penetrate the substrate.

Spray: Apply with low pressure using a tip size ranging from .011-.021”. Back roll if needed. Apply from top to bottom chasing runs. Product can be applied wet on wet or wet on dry. For optimum performance allow the first coat to fully dry and cure before applying the second coat.

TECHNICAL DATA

VOLUME SOLIDS: 20%

RECOMMENDED FILM THICKNESS: 1 MILS DFT 5 MILS WFT

CURING TIME:
 75F (24C):
 Dry Time: 45min. - 1 hour.
 To Recoat: 30 minutes

VOLATILE ORGANIC COMPOUNDS: 15g/L

COMPONENTS & PACKAGING: 1 component in 5-gal plastic containers

NET WEIGHT PER GALLON: 10 lbs/gal
STORAGE TEMPERATURE: 40F (4C) to 90F (32C)

Keep unused material tightly closed at all times. KEEP FROM FREEZING

SHELF LIFE: 12 months in unopened containers in applicable storage.

FLASH POINT (SETA): None – Non-flammable

HEALTH & SAFETY: Water-based and non-hazardous.
*Paint and related products contain chemical ingredients that are considered to be hazardous. Read container label and MSDS for important health and safety information prior to use.

MAINTENANCE

CLEAN UP: Flush and clean all equipment immediately after using warm soapy water.

STORAGE & HANDLING:

Must be stored and handled in compliance with all current local regulations for flammable liquids. Store in cool, dry, well-ventilated areas, out of direct sunlight and moisture.

LIMITATIONS

Product application must not be initiated during inclement weather or when precipitation appears to be imminent. Product must not be applied to wet, frozen or dirty surfaces. Product must not be applied when conditions are windy as over spray is a hazard and environmental contaminants dispersed from windy conditions can land in the coating during curing. The product must be checked and reapplied as needed in the specific area that has undergone a graffiti removal. Always apply test area before proceeding with entire application.

When using the SCS-002SP for priming uses only onto very porous or highly absorbent materials such as very old or damaged mineral substrates (or other) initial testing is vital. The technique of applying a tack or fog coat can be useful in this specific application. Apply a light tack or fog coat to the substrate in an even and consistent manner. The purpose of the initial very light coat is to inject the resin of the sealer into the substrate with not very much water. This allows the resin to cure in the large pores quickly without penetrating deeply, which sets a base permeation level in the substrate. This will ensure that the next standard application will only migrate to the base layer and allows one to build on that layer. If a normal flood coat were used on these kinds of absorbent materials the water in the sealer will drag the resin deep within the substrate making it difficult to seal and provide the adhesive film on the substrate in question. Tack or fog coats are typically applied at 200-300 square feet per gallon.

If using the SCS-002SP for sealing it is advised against using the tack/fog coating application technique and to apply it via traditional application techniques. In this case, it will require several coats to gain a full seal. Before, intermediate and after testing with a Rilem Tube will depict whether or not you have built a sufficient water resistant barrier.

Use the SCS-002SP as an undercoat for GPA Products and elastomerics, SCS-002SP fills air pockets, cracks and pores in block, which reduces suction and helps GPA Products and elastomeric finishes form a pinhole-free film. SCS-002SP controlled viscosity is designed to readily flow into recesses of split face and fluted block, providing a far more effective seal than latex block fillers on irregular surfaces that cannot be back rolled. All surfaces should be thoroughly cleaned and free from dust, dirt, efflorescence or other surface contaminants. Caulking and additional sealants should be in place whenever possible before applying SCS-002SP. Air and substrate temperature must be 20°C (50°F) and rising.

Please consult your SEI **Area Developer** for application, graffiti removal, specification and design and warranty assistance.

WARRANTY & DISCLAIMER

The information provided is to be used as a guide and customers should perform their own tests to ensure performance in their application. All data, statements, and recommendations made herein are based upon information we believe to be reliable, but are made without any representation, guarantee or warranty of accuracy. All statements, technical information and recommendations contained herein are based on tests SEI believes to be reliable, but the accuracy or completeness thereof is not guaranteed. SEI warrants its products will be free from defects when shipped to customer and should work in a manner consistent with its product data sheets should the products be applied in a commercially acceptable manner as determined by SEI. SEI under obligation of this warranty shall be limited to replacement of product that proves to be defective. To obtain replacement product under this warranty, the customer must notify SEI of the claimed defect within three months after the released invoice of product to customer. All freight charges for replacement products shall be paid by customer. SEI shall have no liability for any applications before or reapplication, injury, loss or damage arising out of the use of or the inability to use the products. Before using, user shall determine the suitability of the product for the intended use and carry out an appropriate test of the product and document such testing and assumes all risk and liability whatsoever in connection. No representation or recommendation not contained herein shall have any force or effect unless in a written document signed by an officer of SEI. The foregoing warranty is exclusive and in lieu of all other warranties expressed or implied. In no case shall SEI be liable for incidental or consequential damages. Limited warranty for industrial or commercial use. Keep out of reach of children, keep container sealed, Not for internal consumption. Consult material safety data sheet before use.