

Product Data Sheet

Spray Coat



Spray Coat is a cementitious product designed to resurface concrete without compromising on color, design or texture. It is a single component, self-bonding white Portland cement overlay that eliminates surface defects, increases wearability and slip resistance.

Spray Coat is formulated and optimized using polymers to create superior adhesion and flexibility in both interior and exterior spaces. These include restoration, protection, resurfacing, architectural design and many more. It can be applied via many methods, including trowel, float, squeegee brush, hopper-gun, or pump system.

APPLICATIONS

Spray Coat has an infinite number of applications, but is most commonly used for:

- Driveways
- Pool Decks
- Patios
- Outdoor Living Spaces
- Basements
- Retail Floors
- Theme Parks
- Themed Attractions

BENEFITS

Spray Coat has a large list of benefits, including but not limited to;

- Hard wearing
- Tintable and Stainable
- Abrasion Resistant
- UV stable

SURFACE PREPARATION

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.

PACKAGING

50 pound bag (22.7 kg bag)

COVERAGE

1 - 50 lb (22.7 kg) bag of Spray Coat
Base coat - 40 -200 ft²
Finish coat - 40 -200 ft²

MIXING RATIO

4 - 6 qt. (3.8-4.7 L) water to 1 50 lb (22.7 kg) bag of Spray Coat.

DENSITY

126 pounds/ft³ (2018 kg/m³)

APPLICATION TEMPERATURE

50°F - 90°F (10°C - 32°C)

CURE TIME

Initial set - 2-8 hours

Full Cure - 28 Days

APPEARANCE

White powder.

SHELF LIFE

Under normal, Moisture free conditions 1 year for an un-opened container.

COMPRESSIVE STRENGTH

28 day 4278 PSI (29495 kPa)

FLEXURAL STRENGTH

28 day 995 PSI (6560 kPa)

TENSILE STRENGTH

28 day 440 PSI (3033 kPa)

SHEAR STRENGTH

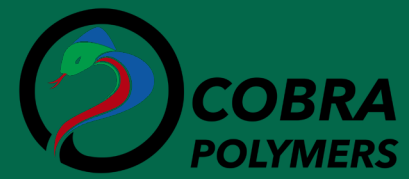
28 day 280 PSI (1930 kPa)

ABRASION RESISTANCE

28 day <.50%

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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.

APPLICATION

All Spray Coat applications are recommended to have at least a 2-coat system, comprised of a base coat and a finish coat. If color is to be applied, it should be introduced during the mixing process of both coats.

Patching

1. Upon surface preparation, some areas may require patching prior to application of material. The use of cementitious based materials intended for patching is recommended.

Crack and Joint Treatment

1. Cracks will require treatment prior to installation of material. The use of strong matching or crack filling materials are recommended.

2. Never bridge over existing joints with Spray Coat, as they will crack back through the top coat. All existing joints in the sub slab must be honored in the top coat. The installation of expansion foam or joint sealant is suggested.

Temperature / Weather

1. Avoid high heat and windy conditions. Attempt to minimize application during harsh conditions. Keep materials shaded before application, and utilize cool water.

2. Apply within temperatures that are at and will remain within these ranges for at least 24 hours within 50°F and 90°F.

Base Coat

1. The base coat is to be either sprayed or applied with a Sprayer, trowel or squeegee. The intent of the base coat.

is to create a uniform substrate to allow the finish coat to create the desired finish.

2. Trowel/Squeegee - Once prepped, pour a generous amount of material onto the surface and apply by moving around with the trowel or squeegee.

3. Spraying - Once the surface is prepped, decide on the size of the sprayer gun tip and air pressure for the designated finish. Spray material at a downwards angle for best finish. Coverage should be at 100% for best look, but can be less for designated finishes.

Stencil & Tape Patterns

1. The use of fiber reinforced tape or stencils can elevate designs by applying Spray coat over creating a pattern.

2. Apply stencil either before both coats or over the base coat, and before the finish coat; respective of the intended finish. Once the material has been applied, remove the tape/stencil once set but not cured.

Finish Coat

1. The finish coat is applied in the same method as the base coat, however the design or desired finish is to be applied in this process.

2. The base coat should be dried long enough to bare the weight of the applicator (2-8 hours)

2. Scrape floors with scraper or rub stone to remove any unwanted edges or material. Clean of all containments.

3. Apply finish coat in same manner as base coat.

Secondary Coloring

1. Depending on the application selected, secondary coloring will provide aesthetic appeal to the project.

There are several methods available:

-Water Based Stains

-Solvent Based Stains

-Antiquing Agent Powders

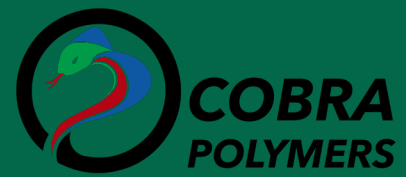
Refer to SDS/PDS of appropriate materials for application methods.

Sealing

1. To preserve and maintain the life and finish of the floor, we highly recommend the application of a sealant material to the finish floor. These can be either water

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based sealers, solvent based sealers, polyurethanes or polyaspartics. Please refer to material SDS/PDS for application instructions.

We recommend the use of our 20% or 30% Solvent Based Sealers for low VOC applications, both interior and exterior.

SLIP RESISTANCE

Both OSHA (Occupational Safety and Health Administration) and the Department of Justice through ADA (Americans with Disabilities Act) have issued directives on minimum coefficient of friction. ADA states that accessible walkways have a minimum coefficient of friction of 0.6. Ramps have been directed to 0.8. The applicator assumes the responsibility to meet these standards.

CLEAN-UP

If spills or on tools, make sure to clean up Spray Coat with cleaner or water before it dries.

DISPOSAL

Follow local guidelines for disposing hazardous products.

LIMITATIONS

- For use by trained professionals.
- Formulated for use over concrete that is structurally sound and thoroughly clean.
- Requires the application of a sealer or coating after finish surface.
- Not to be applied in areas with active water or immersion.
- Not designed to withstand harsh chemicals.

CAUTIONS

KEEP OUT OF REACH OF CHILDREN. Product is flammable. Avoid sources of ignition. Keep areas of installation well ventilated.

Inhalation: Use NIOSH approved respirator for organic vapors.

Skin Contact: Skin contact may cause irritation. Remove contaminated clothing immediately and wash effected area with soap and water. Wash clothing before using again. If symptoms persist seek medical attention immediately.

Eyes: Wear Safety eye protection when installing this product. If contact occurs, flush eye with water for 15 minutes, seek medical attention

Further Information

Information relating to the safe handling of this product can be found in the Material Safety Data Sheet. Local Regulations concerning the safe handling of silica containing materials must be observed. Suitable protective clothing including eye protection must be worn at all times.