

K A U F M A N

PRODUCT
INFORMATION

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SilaneSeal 55

Description

SilaneSeal 55 is a 55% solids, solvent based, VOC compliant, clear penetrating silane sealer. SilaneSeal 55 is reactive, breathable, and may be used on both interior and exterior above grade concrete or masonry surfaces. SilaneSeal 55 will chemically bond with silaceous materials to form a long-lasting attachment of the water-repellent molecules, which will produce a surface that is highly resistant to salt and water intrusion. SilaneSeal meets only the EPA regulations for VOC content. SilaneSeal will also dry tack free, is skid resistant, colorless and non-yellowing.

Uses

SilaneSeal 55 will help to prevent intrusion of salts and water into concrete and masonry, and will help to prevent the resulting corrosive effects of de-icing chemicals and moisture expansion and contraction, which leads to spalling and the general failure of concrete and masonry. SilaneSeal 55 is ideal for use with concrete and masonry, and more specifically for use on traffic bearing concrete surfaces, bridge decks, pavement, ramps, stadiums, marine environments, and parking garages.

Physical Properties @ 75°F and 50% relative humidity

VOC Content	575 grams/liter
Flash Point	145.4° Fahrenheit
Active Content	55%
Density	7.3 lbs. /gallon
Viscosity	0.95 mPa.s
Penetration	0.20 mm
(Depending upon porosity of substrate)	

All values approximate - will vary with temperature and humidity.

Application

Use a roller, brush, or low pressure airless sprayer (15-25 psi.) with a fan type nozzle tip for proper application of SilaneSeal 55. Make certain that the sprayer is designed for use with solvents such as mineral spirits. Stir thoroughly prior to using.

On new concrete surfaces, the concrete should be cured for a minimum of 28 days using one of the following methods: wet burlap, curing paper, water, or a dissipating resin curing

compound such as DR Cure. However, if the dissipating resin curing compound is used, it MUST be properly removed prior to application of SilaneSeal 55 with an appropriate cleaner such as EasiKleen EM. The concrete must be free of all contaminants or deleterious materials including curing compounds, form release agents, coatings, dust, oil, debris, etc. Use methods such as water blast, shot blast, or sand blast to achieve the desired surface condition. Repointing of any loose or sub-standard mortar prior to application is necessary, and it must cure prior to application for adequate absorption. The concrete must be porous or absorptive enough to receive SilaneSeal 55. All joint sealants, caulking compounds, and repair mortars must be placed and fully cured prior to placement of SilaneSeal 55. Do not allow SilaneSeal 100 to puddle in top of silicone sealants, as it will cause swelling of the sealant. Flood the concrete surface with SilaneSeal 55, making certain to achieve even distribution, even using a squeegee or broom to remove excess material, and to even out the application. Allow the concrete to absorb the SilaneSeal 55 fully. Extremely porous surfaces may require a second application. Always make certain to remove or redistribute any excess material, never leaving any puddles.

On old concrete or masonry, remove any contaminants or deleterious materials, including curing compounds, sealers, dust, dirt, oil, etc. through the use of pressure washing and/or the use of a citrus degreaser, to provide a properly prepared surface. It is the responsibility of the contractor to make certain that the surface has been properly prepared, and that the surface is ready for application of SilaneSeal 55, as the surface must be absorptive to receive this material.

On vertical surfaces, apply in a flooding type application style from the bottom up, while allowing SilaneSeal 100 to run down the vertical surface 6-8 inches below the spray pattern. Coverage rates on vertical surfaces depend upon porosity of the surface.

Since routinely, it is not known whether the surface has been treated before, a test should always be performed to confirm suitability of

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SilaneSeal 100, and that no undesired results will occur.

Coverage

The average rate is determined by the porosity of the concrete or masonry. Perform a test to ensure the desired rate of application and to confirm desired results. Allow 5-7 days to fully react, prior to examining the results.

Concrete	125-250 ft ² /gallon
Stucco	90-130 ft ² /gallon
Brick (Regular)	100-150 ft ² /gallon
Brick (Hard Burnt or dense)	125-175 ft ² /gallon

Packaging

55 gallon drum (208.15 Liters)
5 gallon pail (18.93 Liters)

Precautions

Use only in well ventilated areas. Flammable. Protect grass, plants, trees, glass, metal, and other surfaces from over-spray of SilaneSeal 55. Never use if the air or product temperatures are below 40° Fahrenheit, or over 90° degrees Fahrenheit. Never apply on windy days. Do not use over a curing compound. If a dissipating resin curing compound is used, then it must be properly removed prior to application. The initial reaction between SilaneSeal 55 and the substrate (Concrete or masonry) will take 16-24 hours, however areas may be returned to service once the material has penetrated and the surface is dry. Do not over-apply, avoiding puddles is mandatory. If over-applied, a darkening of the surface may occur.

Never apply if rain occurred within 24 hours prior to placement, or if rain is expected to occur within 6-8 hours after application. SilaneSeal 55 is not meant to be used for below grade waterproofing, and is not effective on some stone surfaces. Do not dilute. Keep away from sparks, flames, or sources of ignition. When working in an enclosed area, an air respirator should be used. Protect asphalt products including roofing materials, shrubbery, grass, and all plant life. Apply paint stripping after SilaneSeal is fully dried. SilaneSeal 55 will not prevent water or salt intrusion through unsound, cracked, deteriorated concrete, nor through surfaces with defective flashing, waterproofing, or caulking. Keep from freezing. Avoid ingestion, skin and eye contact and inhalation of spray units. Wear protective goggles and gloves, and avoid contact with all food stuffs. Please refer to the safety data sheet for more information.

Technical Information

The following results were achieved under laboratory conditions. Statistical variations will occur based upon mixing methods, temperature & humidity, test methodology, site conditions, curing conditions, application methods, and equipment.

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