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GENERAL INFORMATION

Protective Equipment

For safe, professional application, we recommend that you wear safety goggles, a suitable paint mask, gloves and work clothes. Helmets are recommended when working at height.

Application Equipment

Application of SnakeSeal to concrete, wood and metal surfaces is recommended using a high-pressure (minimum 3000 psi) airless paint pump. The pump used should have a flow rate of at least 2.6 liters per minute (0.7 gallons per minute). For floor applications, a gun extension rod is recommended to increase reach. Recommended equipment specifications are :

Nozzle: 0.525
Diameter: 3/8
Hose Length: up to 30 meters (100')

SnakeSeal can also be applied by brush, roller or squeegee.

Ambient Conditions

For best results, SnakeSeal should be applied with relative humidity levels between 30% and 65%. Drying and curing times can be significantly affected when relative humidity levels exceed 70%. The use of an industrial dehumidifier may be necessary to achieve optimum conditions. The application of SnakeSeal itself can increase relative (ambient) humidity. We recommend regular humidity checks before and during application. Ambient and substrate temperatures can affect coating adhesion and drying time. SnakeSeal should always be allowed to reach room temperature before being applied to cold surfaces. We recommend using SnakeSeal at a temperature between 15°C and 32°C (60°F and 90°F) for best results. Substrate temperature should always be above 10°C (50°F) for optimum SnakeSeal application.

Substrate Condition

SnakeSeal must be applied to a clean, dry substrate. The substrate must be cleaned before applying SnakeSeal to remove any dust, oil, wax, grease, mildew or other debris. Inspect the substrate before application for defects, holes or any other anomalies, then repair if necessary before coating with SnakeSeal.

Ventilation

Adequate ventilation is recommended to circulate air when applying SnakeSeal in enclosed areas, particularly where humidity levels are high. The air flow should allow good ventilation of the entire application area, but should not be directed directly at the applied SnakeSeal.

Product Preparation

SnakeSeal should be mixed with a mechanical metal stirrer and drill until completely smooth and uniform. Mixing for at least 5 minutes is recommended for 18.9L (5 US gallon) containers. Be sure to mix the edges and bottoms of containers thoroughly for best results.

If you are adding colorant to SnakeSeal, make sure that the product is not already colored, and that you are using a suitable colorant according to your supplier. Add 946 millilitres (32 oz) of colorant to an 18.9L (5 US gallon) pail of SnakeSeal and stir again until completely uniform.

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SNAKESEAL ON DIFFERENT SURFACES

Application on Concrete Floors

SnakeSeal must always be applied to a clean, properly prepared surface. Prior to application, inspect the concrete surface to be covered. The surface must always be cleaned, rinsed and thoroughly dried before applying SnakeSeal. For best results, use a concrete degreaser to clean, rinse thoroughly and then use an agricultural acidifier to treat the surface before applying SnakeSeal. Always follow the instructions on the products you use.

If the surface is new or in immaculate condition, clean it thoroughly first. Rinse the surface and make sure it is completely dry before starting the application. Once the surface is dry, inspect it one last time to ensure that it is clean, free of debris, free of damage or cracks, and ready for coating.

If the concrete surface has cracks or holes, these must be repaired for best results. Cavities should be cleaned of any dust or debris, then repaired with conventional concrete repair products. Be sure to follow the instructions of the products you use, and make sure your repairs are completely dry or cured before covering them with SnakeSeal.

If the concrete surface has previously been covered with paint or another coating, make sure that this old coating does not lose adhesion to the concrete surface. If pieces of coating or paint come loose from the floor, you must completely remove the old coating by diamond grinding before application to ensure the best possible adhesion of SnakeSeal to the floor. If you choose to apply SnakeSeal over an old coating, make sure that the SnakeSeal adheres well to the other coating.

If the concrete surface is compromised or damaged, and pieces of the concrete surface become glazed or peel off, you must diamond-grind before application to ensure the best possible adhesion of SnakeSeal to the floor.

Application on Wood Surfaces

SnakeSeal adheres very well to vertical and horizontal wood surfaces. Prior to application, inspect the wood surface to be covered. The surface must always be clean and dry before applying SnakeSeal. Make sure the wood surface is free of major defects, debris and protruding wood fibers that could compromise the quality of the coating. If dirt or contaminants are present and penetrate deep into the wood surface, sanding may be necessary to ensure optimum adhesion.

Application on Metals

SnakeSeal adheres very well to metal surfaces such as steel and aluminum. Before application, inspect the surface to be coated. The surface must always be clean and dry before applying SnakeSeal. Make sure the surface is free of major defects, debris and rust. If rust is present on the surface, sanding or grinding may be necessary to ensure optimum adhesion.

Application in Agricultural and Food Establishments

This product is safe and suitable for use in agricultural and food establishments as a building material, more specifically as a floor and wall coating product to cover and protect concrete and wood surfaces. In food establishments, its use is limited to the surfaces mentioned above, and application by spray or paint pump is restricted outside processing areas where there is no risk of volatilization of overspray in a processing area if processing equipment or food is already present or installed. When applying in a processing area with its equipment, roller or rake applications are recommended, and the equipment must be adequately protected or covered.

SnakeSeal protective coating is not intended for direct application to food processing surfaces or surfaces in direct contact with food.

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APPLICATION PROCEDURES

Choice of Application Method

The recommended application method for SnakeSeal is an airless paint pump for fast, even surface coverage. If you are more comfortable with brush, roller or squeegee application, test that the product works well with your equipment, then proceed as usual for application with your equipment.

Application Tests

Before starting the full application of your project, we recommend that you test the spraying effect of your equipment with SnakeSeal, on a cardboard box or in a less visible corner, to ensure that the nozzle is spraying the product at the right rate and evenly.

Application Specifications

To act effectively as a protective coating on concrete, SnakeSeal must be applied at a uniform thickness of 20 to 30 mils wet to the concrete surface. It can be applied in two subsequent coats of 10 or 15 mils wet rather than in a single coat.

Method of Application

The application of SnakeSeal does not require the use of a primer (base coat). Make sure the substrate is clean and the work surface is completely clear. Install the paint pump directly into the SnakeSeal boiler. Holding the nozzle 8 to 10 inches off the ground and at a 90-degree angle, use a linear application technique, taking care to overlap previous lines and cover completely with even lines. It is recommended to apply with controlled, constant movements, in straight, successive lines that overlap the previous lines, covering between 40% and 50%. Take measurements from the very first lines to ensure the correct thickness is applied, then regularly throughout the application.

Start by skirting walls and large obstacles, then complete the sections. SnakeSeal can also be applied to vertical walls up to a thickness of 30 mils wet. For vertical applications, always orient your nozzle at 90 degrees to the surface you're covering, and maintain the ideal distance of 8 to 10 inches.

Second Coat

Under optimum ambient conditions, SnakeSeal can be applied in two successive coats, with only 15 to 45 minutes between applications. In case of extreme humidity, the time between coats can be extended.

Visual Inspection

After application, visually check the quality of the application, ensuring that the entire surface and edges are well covered. Make sure there are no visible defects or surface damage.

Drying Time

SnakeSeal should be touch-dry in 2 to 4 hours. Complete curing may take up to seven (7) days. Avoid placing loads or driving over the coating for 48 hours after application. Do not wash the coating with chemicals or do not brush for seven (7) days after application.

Equipment Maintenance

After application, be sure to wash your equipment with lukewarm water to prevent the SnakeSeal from solidifying and damaging the pump or paint pump hose. Rinse until the water runs clear.

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QUALITY CONTROL

Wet Film Thickness (WFT)

The thickness of your SnakeSeal application should be measured using a wet film thickness gauge. By placing the gauge horizontally (90°) into the applied wet coating, the coating thickness is revealed by the notches that are covered by SnakeSeal (indicated in wet mils). Checks should be made every 18.9 liters (5 US gallons) applied, and surface irregularities should be taken into account when measuring.

Application Report

To ensure the quality of your SnakeSeal application and the professional follow-up of your projects, be sure to fill out a form documenting the conditions of your application, tracking the batch numbers applied and any other relevant information that can attest to a successful application.

OTHER INFORMATION

SnakeSeal Documentation

For a successful application of SnakeSeal, please read all available product documentation. The technical data sheet, safety data sheet, user's guide and warranty letter can be accessed and updated at www.snakeseal.com.

Manufacturer Information

SnakeSeal is developed and manufactured by Terra Nova Surface Treatment Inc. (TSTN Solutions)

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