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Application Instructions



For both Water Repellent and Graffiti Protection

Pre-Application: The following pre-application concerns apply to both water repellent and anti-graffiti applications.

- ❑ **Surface must be clean, dry and free from dirt**, grease, oil, paint, efflorescence, form release agents, and any other water repellent, paint, or coating. Surfaces that have been power washed must be allowed to **dry for a minimum of 72 hours** and after a rain a **minimum of 48 hours**. Application of Professional® Water Sealant (PWS) to wet or damp surfaces will inhibit penetration and may cause ghosting or whiting. Do not apply if precipitation is expected within 12 hours.
- ❑ **Mask all glass and non-porous materials** such as aluminum framing, etc. (product over-spray is extremely durable and not easily removed from glass)



- ❑ Painted surfaces, surfaces to be painted, and non-masonry surfaces (*not intended to be sealed*) should also be protected.
- ❑ **Cover all vegetation** to protect from over-spray or product rundown. (Professional ® Water Sealant is solvent based and may kill vegetation)
- ❑ **Move vehicles** away from the structure to be sealed to protect them from over-spray. **Do not apply in windy conditions.**
- ❑ **Turn off and cover** ventilation systems, heating and air-conditioning ducts and fresh air intakes to **protect building occupants** from inhalation of fumes.
- ❑ Steel troweled, horizontal concrete surfaces must be prepared in a manner that will allow penetration of the product, i.e. shot blasting.

- Always perform a mock up (test patch) prior to commencement of full application. Conduct this test in an inconspicuous area of approximately 2ft. X 2ft. to evaluate the following:



Fig 1. PWS applied to a 2x2 area on wall previous day



Fig 2. Water sprayed on wall shows the 2'X2' area does not absorb any water

-Warranty Approval: A test is required and must be documented in section 2 of the warranty application. Sections 1 and 2 of the warranty application must be submitted to the manufacturer and approved prior to commencement of full-scale application.

-Appropriate Strength: PWS is manufactured in three strengths: PWS-5 Regular (5% Silicone Rubber), PWS-8 Extra (8% Silicone Rubber) and PWS-15 Super (15% Silicone Rubber). **PWS-5 Regular** is for denser substrates, such as: horizontal concrete, hard fired clay brick, poured in place, smooth face concrete, etc. **PWS-8 Extra** is recommended for substrates of medium porosity, such as: smooth face--heavyweight CMU, porous brick, sandstone, limestone, stucco, etc. **PWS-15 Super** is appropriate for lightweight, porous materials, to include: split face, fluted and expanded shale block. During the test application, ensure that the water repellent penetrates completely into the substrate. If product is still laying on the surface after ten minutes, adequate penetration may not have occurred. Repeat the test using a lower solids formulation (i.e. If you were using PWS-8 and full penetration did not occur, try the PWS-5). If the product absorbs too quickly, repeat the test using a higher solids formulation. Recommendations for appropriate strength are available from the manufacturer, www.watersealant.com, their sales representatives and distributors.

-Color Enhancement or Darkening: This happens occasionally. If there is a change in aesthetics, seek approval before proceeding.

Product Application (water repellent): In most cases, only one coat is required for water repellent applications provided that the strength of product appropriate for the substrate's porosity is applied.

Vertical Application:

- The recommended method for application is to use a high-volume, low-pressure sprayer with a fan tip and solvent resistant gaskets/fittings. Application pressure should be between 40 and 60 p.s.i.
- Apply in a **flood coat**, from top to bottom, being sure to **obtain a 4 to 6 inch rundown** of product from the point where the spray makes contact with the surface. Work your way down the building filling in the rundown with an equal volume of product. Be sure to go all the way to the bottom of the structure before the rundown lines cure. Some substrates may require back rolling to smooth out rundown lines. Brush any excess product that may accumulate on ledges and other areas that may hold excess material. It is recommended that application be continued until you reach a corner or the end of a wall. Since PWS dries to a clear flat finish, it is often difficult to determine what has been sealed and what has not. If you quit for the day in the middle of a wall, it may be hard to find where you left off when you return to continue the project. Avoid overlapping.



- ❑ Optimum surface and air temperature ranges for application are between 40° and 95° F. PWS may be applied at temperatures below freezing provided that there is **no frozen moisture present in the substrate**.
- ❑ PWS may also be applied by brush or roller providing that a flood application is obtainable. When using a brush or roller it is more difficult to ensure a consistent, even application. Therefore, these methods of application are recommended for small projects or in areas where protection from over-spray is not possible.

Horizontal Application:

- ❑ Apply in a **saturating, flood coat** using a high-volume, low-pressure sprayer equipped as described above.
- ❑ **Do not allow PWS to puddle.** If product has not completely absorbed after approximately 5-10 minutes, broom excess to an area that has not reached saturation or wipe it up.
- ❑ **PWS-5 Regular** is recommended for most horizontal surfaces (contact manufacturer for exceptions).

Product Application (Anti-Graffiti): Two coats, applied in the same manner as described above, are necessary for adequate protection against graffiti.

- ❑ Unlike water repellent applications, where the porosity of the substrate dictates what strength of PWS is appropriate, **for graffiti protection, the first coat in the two-coat process is always PWS-15 Super.**
- ❑ The second coat will be either **PWS-8 Extra** or **PWS-15 Super** depending on the porosity of the substrate and may be applied as soon the first coat is dry to the touch. For example, 2 coats of **PWS-15 Super** are required to protect concrete block from graffiti; most brick requires a coat of **PWS-15 Super** followed by a coat of **PWS-8 Extra**.

Product Limitations:

- ❑ **PWS-15 Super must be used within 8 hours of opening** the sealed container. **PWS-5 Regular** and **PWS-8 Extra must be used within 48 hours of opening** the sealed container.
- ❑ **PWS is not recommended for below grade surfaces.**
- ❑ **The Anti-Graffiti System is not for use on horizontal surfaces.**
- ❑ **Cannot be used on painted surfaces and cannot be painted over.**