

# GUIDE TO WATER REPELLENTS

There are 2 basic types of penetrating water repellents:  
Silanes and Siloxanes

## Silanes:

- Achieve the greatest depth of penetration due to its very small molecular size.
- With most silanes, masking of the glass is not necessary as it is with the siloxanes
- Will not darken the substrate

## Siloxanes:

- Perform better than silanes in the beading of water
- Are preferred for the more porous substrates
- Can potentially darken the surface, depending on the solids content & rate of application
- Are the preferred product for non-cementitious products i.e. clay, brick, stone and the like.

## Application:

- Prior to the application the substrate should be completely dry
- Allow at least 24-hours with sunshine for drying if the surface was wet. A dry surface helps to maximize the depth of penetration of the water repellent
- Wait until the concrete is 28-days old prior to applying the water repellent
- The preferred method of application is a very low pressure spray [+/- 15 psi(1 Mpa)] using a fan-type spray nozzle
- The ideal time to apply water repellents is late in the day when the temperature and the structure to be treated starts to cool down and the wind tapers off

## DAYTON SUPERIOR WATER REPELLENTS

### Silanes:

**Weather Worker S-40 (J-29)** - 40% active ingredients:  
N.C.H.R.P. Report 244 Approved, Series II, IV  
Exceeds Alberta Transportation Specifications  
10-Year weatherproofing warranty available\*

**Weather Worker J-29 WB** - water-based W/ 40% active ingredients:

N.C.H.R.P. Report 244 Approved, Series II, IV  
10-Year weatherproofing warranty available\*

**Weather Worker S-100 (J-29 A)** - 100% active ingredients  
10-Year weatherproofing warranty available\*

### Siloxanes:

#### Weather Worker WB (J-26-WB):

Available in 7% and 10% active ingredients  
5-Year weatherproofing warranty available\*

#### Weather Worker WB Heavy Duty (J-27-WB):

20% Active ingredients  
10-Year weatherproofing warranty available\*

\* Technical Services must be contacted prior to any application that will require a warranty

Refer to [www.daytonsuperior.com](http://www.daytonsuperior.com) for latest Technical Data Sheet and MSDS  
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