

O-S/W™ (Organo-Silane Waterborne)

Substrate Conditioner

With the introduction of O-S/W™ Substrate Conditioner, Richard James Specialty Chemicals (RJSC) is again at the forefront of water-borne solutions for the engineered cement, concrete and natural stone industries.

Until now, all organo-silanes were solvent-borne...flammable, expensive to ship, and with very short pot life after mixing.

For the first time, RJSC scientists have developed and perfected a totally water-borne organo-silane chemistry that is:

- ◆ **non-flammable**
- ◆ **high-performance**
- ◆ **fast-drying**
- ◆ **with a very long pot life**
- ◆ **easy to use**

THE NEW CHEMISTRY OF O-S/W

A true substrate conditioner is ambidextrous, namely with *two* active ends of the chemical structure. *One end* is an inorganic binder that typically locks to any compounds such as silica, sand, alumina, calcium, magnesium etc; and *the other end* must lock to organics such as residual coatings, resins in the fast-set cements, and (ultimately) the organic resins of the final topical coatings.

Until now, all such ambidextrous substrate conditioners required alcohol to "pop" the inorganic side. Since the active ends of these products are slowly neutralized by water, their pot life is short.

O-S/W has active end-terminals (already popped) that are sheltered by proprietary surfactant packages, allowing them to remain active for long periods of time in water.

SAFETY AND SAVINGS

Since alcohol is not used in RJSC's new O-S/W chemistry, the expense of hazardous shipping is eliminated; and the water-borne, non-flammable product can be used safely on *all* job sites.

WHY A SUBSTRATE CONDITIONER?

The basic function of a substrate conditioner is to increase the chemical bond between sealer and substrate. (Every airplane is treated with a solvent organo-silane before it is painted).

Any cementitious or natural stone substrate with an "unknown history" carries the risks of old silicones, oils and over-polished surfaces that can reject sealers and coatings. A true substrate conditioner has the capacity to "chemically lock" different surface conditions and then create a surface that is highly receptive to sealers/coatings. As such, O-S/W is "low-cost insurance".

Additionally, all cementitious substrates, including self-leveling/self-drying engineered cements, experience a cure cycle that progresses with time. Un-hydrated materials and the very complex variables of temperature and vapor pressures will often create the possibility of later hazing under sealers. O-S/W is delivered to concretes/cements as a waterborne "second hydrating" element with the capacity to "coat and lock" the topical layer in a mode that becomes better cured, and highly acceptable to sealers/coatings.

COVERAGES AND PACKAGING

O-S/W is sold as a concentrate and packaged according to surface area that will be treated when diluted with water. Five SKU's are available: 60 - 75 sq.ft.; 250 - 300 sq.ft.; 500 - 600 sq.ft.; 1,100 - 1,400 sq.ft.; and 2,200 - 2,800 sq.ft. (in coverage ranges, lower numbers are for more absorbent substrates).

APPLICATION

Surface should be clean and dry with ambient and surface temperature >60° and <85°. O-S/W Concentrate is added to (measured) water at the job-site and is immediately ready for use. Application is with short shag roller or sprayer to wet the substrate. Colorless and odorless, O-S/W dries in 30-minutes - 1 hour at which time the substrate is ready for RJSC coatings.

RICHARD JAMES
Specialty Chemicals Corp.
24 Ridge Street • Hastings-on-Hudson, NY 10706
(914) 478-7500 fax: (914) 478-7516 www.rjsconline.com