XCEL™ PS1

100% Premium Silicone Data Sheet

Product Description

XCEL PS1 is a 1-component, elastic, moisture curing, high-performance sealant, based on acetoxy silicone. XCEL PS1 is engineered for a wide range of sealing and bonding applications. It does not contain solvents, ensuring its safety for natural stone, and has excellent resistant to ozone, ultra-violet radiation and temperature extremes.

Fields of Application

Multipurpose sealant and adhesive for the Kitchen & Bathroom, Industrial and Window and Door Industry.

- ✔ Bonds & Seals to most surfaces
- ✔ Kitchen & bathroom fixtures
- ✔ Countertops & backsplashes
- ✔ Cultured Marble, Granite...
- ✔ Ductwork & HVAC
- ✔ Aluminum, Brass, Steel, Vinyl
- ✔ Ceramic Tile
- ✔ Glass, Wood & Porcelain

Main Benefits

- ✔ Easy Application
- ✔ 100% silicone polymer
- ✔ Excellent UV & Weather Resistance
- ✔ Excellent mold and mildew resistance
- ✔ Solvent free
- ✔ High Strength

Directions for Use:

For optimal results the substrates must be clean, dry, and free of old residues, polish, liquid sealants, wax, dust, grease and other contaminants which may affect the adhesion. Painted surfaces must be well cured and free of loose paint. The product is suitable for many types of construction materials, however, a preliminary adhesion test is recommended on every surface. After substrate preparation, apply with a manual- or pneumatic caulking gun. Uncured product may be easily removed with any solvent. Cured sealant must be removed mechanically. Optimum bonding will be obtained after complete curing, i.e. after 24 to 48 hours at +23°C for a thickness between 2 to 3 mm.

Xcel Products Inc (North America)
T: +1 844-923-5776 E: info@trenao.com
W: www.trenao.com

Xcel Products Inc (United Kingdom)
T: +44 845 544 2156 E: info@XcelProducts.co.uk
W: www.XcelProducts.co.uk

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Xcel PS1 is suitable for use on a variety of common building materials, including most metals and woods, aluminum, many plastics, brick, stone, stucco, masonry, cement board, glass, porcelain, ceramic tile, drywall, plaster, vinyl siding, PVC, fiberglass, and painted surfaces.Cures fast, even at low temperatures. PS1 is highly weather resistant and exhibits excellent temperature resistance.

Technical Information:

Raw material basis: Acetoxy silicone

Consistency: Non-slump, non-sagging paste

Specific gravity: approx. 1.02 g/cm3

Working time: 10-15 minutes (at 23ºC; 50% R.H.)

Curing rate: 2-3 mm/24 hr

Consumption: approx. 25 linear ft/9.8 oz (8 meters/290ml) (nozzle diameter: 8 mm/0.25")

Application temperature: Between +5ºC to 40ºC (41ºF to 104ºF)

Properties of cured product:

Service temperature: -40ºC to +150ºC (-40ºF to 302ºF)

Shore A hardness: 15

Max. tensile: 218 psi / 15 kg / cm2

Elongation at break: > 500 %

These values may vary depending on environmental factors such as temperature, moisture, and type of substrates.

Limitations

It is not recommended to use PS1:

- Applications requiring paintable sealant
- Use underwater or in situations involving continuous water exposure
- Aquariums
- Under shower door tracks or as a spackling compound
- Porous materials* such as concrete, limestone, or sandstone
- Frozen or contaminated surfaces
- Extreme hot or cold conditions
- Structural repairs
- Highly alkaline or acidic substrates
- Galvanized surfaces, certain metal finishes,* or specialized coatings like mirrors without the manufacturer's approval

*Always test on an inconspicuous area of metal finishes and natural stone, as curing may cause blemishes

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Color and Packaging Information

This product is packaging in 290 ml / 9.8 oz cartridges

Colors: White, Translucent, Clear, other colors available on request and subject to minimum order quantities

Storage and Safety

The shelf life is 18 months in the original unopened original packaging, in dry conditions and protected from direct sunlight at temperatures between +5ºC and +25ºC.
Avoid skin and eye contact. For further safety information see the corresponding Safety Data Sheet.

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