

## Universal Bond & Seal Data Sheet

### Product Description

XCEL UBS is a 1-component, permanently elastic, adhesive/sealant, based on MS Polymer, for indoor and outdoor applications. XCEL UBS is engineered for a wide range of sealing and bonding applications. Completely weather resistant, odourless and does not contain solvents, silicones or isocyanates.

### Fields of application

Multipurpose sealing and bonding in the building, automotive and manufacturing sectors.

- ✓ Bonds & Seals to most surfaces
- ✓ Kitchen & bathroom fixtures
- ✓ Countertops & backsplashes
- ✓ Windows & doors
- ✓ Wood & moulding/trim
- ✓ Thresholds, Sills, Siding & Vents
- ✓ Ductwork & HVAC
- ✓ Aluminum, Brass, Steel...
- ✓ Polystyrene, SM Insulation Board
- ✓ Stone, Brick, Fiber Cement & Tile
- ✓ Concrete, Glass, Wood & Porcelain
- ✓ Cultured Marble, Granite...

### Main Benefits

- ✓ Seals & bonds wet or dry
- ✓ Interior / exterior
- ✓ Environmentally friendly - No VOC's
- ✓ Can be applied -18°C to 60°C
- ✓ Permanently waterproof, flexible, crack proof, mold resistant, & odourless
- ✓ Cures in 24 hrs under normal conditions
- ✓ Paintable within 1 hour



### Directions for use

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. If worried about UV exposure, see limitations below. 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 UBS** exhibits excellent adhesion to many substrates including aluminum, brass, steel, Kynar®, Galvalume®, painted surfaces, vinyl, glass, granite, marble, wood and many plastics. Cures fast, even at low temperatures. UBS is highly weather resistant and can be painted with most paints. Manufactured from high grade Silane Modified Polymers UBS contains no solvents or isocyanates and is non-yellowing. Conforms to ASTM C920, Type S, Grade NS, Class 50, Use T, NT, I, G and A. AAMA 802.3 Type II Back Bedding Compound. USDA accepted.

## **Technical Information:**

Raw material basis: *MS Polymer*

Consistency: *Non-slump paste*

Specific gravity: *approx. 1.58 g/ml*

Skin forming time: *15 – 20 minutes (at 23°C; 50% R.H.)*

Curing rate: *2-3 mm/24 hr*

Consumption: *approx. 25 linear ft/290ml (nozzle diameter: 8mm)*

Application temperature: *Between -18°C to 60°C (0°F to 140°F)*

**Properties of the cured product: (After one week at 23°C and 50% R.H.)**

Service temperature: *-40°C to +90°C (-40°F to 194°F)*

Shore A hardness: *45-50*

UV Ratings: *After 2000 hours UV-A no change in appearance or physical properties (ASTM G26)*

Max. tensile: *275 psi / 20kg / cm<sup>2</sup>*

Elongation at break: *> 275 %*

Movement capability: *+/- 50%*

Corrosive and staining properties: *Non-corrosive and Non-staining*

*These values may vary depending on environmental factors such as temperature, moisture, and type of substrates. The time until complete curing may be extended at lower temperature, lower humidity or increasing film thickness.*

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## **Limitations:**

*It is important not to tool the sealant too thin or smear it on both sides of the joint. If the material is smeared on both sides, it can cause premature joint failure and color fading. Do not tool or smear/feather on prefinished colored claddings (i.e. siding, trim, etc.) as this will reduce any sealants ability to withstand UV exposure and joint movement, causing premature joint failure and color fading.*

## **Colours and packaging information:**

*This product is available in 290 ml cartridges.*

*Colours: white, grey, other colours available on request and subject to minimum 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 +5°C and +25°C.*

*Avoid skin and eye contact. For further safety information see the corresponding Safety Data Sheet.*