

Ultra Clear Bond & Seal Data Sheet

Product Description

XCEL UCB is a one-component, Ultra Clear, permanently elastic, sealant / adhesive, based on MS Polymer, for indoor and outdoor applications. XCEL UCB is engineered for a wide range of sealing and bonding applications. Completely weather resistant and odorless and free from solvents or isocyanates.

Fields of Application

Multipurpose sealant and adhesive in the building, automotive and manufacturing sectors.

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

Main Benefits

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| ✓ Seals & bonds wet or dry | ✓ Permanently waterproof, flexible, crack proof, mold resistant, & odourless |
| ✓ Interior / exterior | ✓ Paintable in 1 hour; Cures in 24 hours |
| ✓ Environmentally friendly | ✓ Conforms to ASTM C920 |
| ✓ Cures optically clear | |



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. 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 UCB is designed for bonding a large range of materials such as Kynar®, Galvalume®, painted surfaces, PVC, glass, steel, aluminum, tile, FRP, granite, marble, wood and many plastics. USDA accepted and conforms to ASTM C920, Type S, Grade NS, Class 50, Use T, NT, G and A.

Technical Information:

Raw material basis: MS Polymer

Consistency: Non-slump, non-sagging paste

Specific gravity: approx. 1.04 - 1.06 g/ml

Working time: 20 - 30 minutes (at 23°C; 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 5°C to 40°C (41°F to 104°F)

Properties of cured product:

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

Shore A hardness: 25

UV Resistance: Excellent

Max. tensile: 225 psi / 16 kg / cm²

Lap Shear Rate: 50 mm / minute: 290 psi

Elongation: 250 %

Movement capability: +/- 25%

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

Shrinkage: Zero

VOC Content: Ultra Low (11 grams / litre)



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

Product 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.

Color and Packaging Information

This product is packaging in 290 ml / 9.8 oz cartridges and 600 ml / 20 oz sausages.

Colors: Transparent

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.