

Ultra Clear Bond Data Sheet

Product Description

XCEL UCB is a 1-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 odourless and free from solvents or isocyanates. USDA accepted and conforms to ASTM C920, Type S, Grade NS, Class 50, Use T, NT, G and A.

Fields of application

Multipurpose sealing and bonding in the building, automotive and manufacturing sectors. Designed for bonding a large range of materials such as Kynar®, Galvalume®, painted surfaces, PVC, glass, steel, aluminum, tile, FRP, granite, marble,

- ✓ 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 - paintable
- ✓ Environmentally friendly No VOC's
- ✓ Tensile strength 1.55 MPa / 225 Psi
- ✓ Permanently waterproof, flexible, crack proof, mold resistant
- ✓ Cures in 24 hrs under normal conditions



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 Xcel SDC. 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.

Technical Information:

Raw material basis: MS Polymer

Specific gravity: 1.04 - 1.06

Skin forming time @ 24°C & 50% RH: 20 – 30 minutes

Curing rate @ 24°C & 50% RH for 24 hours : 3 mm

Shore A hardness: 25

Viscosity (cps): 350,000-450,000

Sag: Nil

50% Modulus (ASTM D412) *Rate = 50 mm / minute: 27 psi

100% Modulus (ASTM D412) *Rate = 50 mm / minute: 50 psi

Tensile Strength (ASTM D412): 225 Psi

Lap Shear Rate = 50 mm / minute: 290 psi

Elongation: : 250 %

Service temperature: -40°C to +90°C

Movement Capability: +/- 25%

UV Resistance: Excellent

Application temperature: Between 5°C to 40 °C

VOC Content: Low (11 grams / litre)

Consumption: approx. 50 ml/ linear meter (nozzle diameter: 8mm)

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.

Colours and packaging information:

This product is available in 290 ml cartridges.

Colour: Transparant.

Storage and safety:

The shelf life is 18 months in the original unopened 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.