

# High-Performance Joint Sealant Data Sheet

## Product Description

XCEL HJS is a 1-component, permanently elastic, joint sealant, based on MS Polymer. XCEL HJS is a fast curing, non-sag concrete joint sealant formulated to exhibit superior adhesion and flexibility to a wide variety of substrates. HJS is extremely UV and weather resistant as well as low VOC/HAPS free. It contains zero isocyanates, is non-yellowing and will not crack, peel, shrink or stain.

## Fields of Application

Multipurpose joint sealant for the construction and industrial sector.

- ✓ Bonds & Seals to most surfaces
- ✓ Thresholds, Sills, & Siding
- ✓ Stone, Brick, Fiber Cement & Tile
- ✓ Concrete, Tilt-Wall, Sidewalk, Road

## Main Benefits

- ✓ Seals & bonds wet or dry
- ✓ Interior / exterior
- ✓ Environmentally friendly
- ✓ Conforms to ASTM C719, & ASTM C920
- ✓ Permanently waterproof, flexible, crack proof, UV and weather resistant
- ✓ +/- 50% Joint Movement
- ✓ USDA compliant for use in meat and poultry areas.



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## 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 HJS conforms to ASTM C719 Test Method for Adhesion and Cohesion of Elastomeric Joint Sealant under Cyclic Movement +50% extension and -50% compression as outlined in ASTM C920. Cures fast, even at low temperatures. HJS is highly weather resistant and can be painted with most paints. Manufactured from high grade Silane Modified Polymers HJS contains no solvents or isocyanates and is non-yellowing. Conforms to ASTM C920, Type S, Grade NS, Class 50, Use NT, M, A, G, and O

## Technical Information:

Raw material basis: MS Polymer

Consistency: Non-slump, non-sagging paste

Specific gravity: approx. 1.40-1.44 g/ml

Working time: 20 – 30 minutes (at 23°C; 50% R.H.)

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

## Properties of cured product:

Service temperature: -59°C to +149°C (-75°F to 300°F)

Shore A hardness: 15

Max. tensile: 125 psi

Elongation: 1200%

100% Modulus: 20 psi

Peel Adhesion: 23 ppi/100% CF

Movement capability: +/- 50%

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

Shrinkage: Zero



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 600 ml / 20 oz sausages, and 5 gal pails.

Colors: White, Grey, 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 +5°C and +25°C.

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