



## CanSeal NS

### *Highly Flexible Adhesive & Sealant*

#### *Description*

The CanSeal NS is a single component, moisture-curing, multi-functional adhesive and sealant designed for challenging bonding and sealing applications. The CanSeal NS is moisture-curing and produces high performance bonds of high strength and elasticity. The CanSeal NS bonds to a wide variety of substrates including steel, aluminum, ceramics, Styrofoam®, EPS, glass, wood, fiberglass, concrete and other cementitious materials.

The CanSeal NS is composed of a hybrid polymer system that allows for application on new concrete, damp surfaces and inclement weather conditions that would challenge the more traditional products. There is no “outgassing” that could compromise the function or esthetics of the CanSeal NS.

The CanSeal NS is 100% solids, isocyanate-free and solvent-free. As such it can be used on both interior and exterior applications with no workplace concerns.

While the CanSeal NS can tolerate incidental and temporary exposure to water, it should not be considered for applications involving continuous immersion. For specialized applications involving specific and prolonged chemical exposure, there are other suitable CanSeal products to consider.

#### *Features and Benefits*

- **Solvent and isocyanate free, 100% solids**
- **Non-flammable**
- **Primerless bonding to most surfaces**
- **Odour free**
- **Non-staining**
- **Permanently elastic to -40°C**
- **Non-silicone**
- **Mildew resistant**
- **Fast Curing**
- **Paint Compatible**
- **Extremely low shrinkage**

#### *Storage and Shelf Life*

Unopened containers should be stored in a cool and dry environment between 4°C and 26°C, being protected from water, heat and direct sunlight. The expected shelf life when stored in such conditions will approach 10 months from the date of manufacturing.

#### *Surface Preparation*

All surfaces should be clean and free of all possible contaminants that would affect the function of the CanSeal NS. This would include oil, grease, tar, dirt and other foreign materials. While damp surfaces are acceptable, all standing or pooled water should be removed. Surfaces should be frost-free.

### ***Physical Properties***

|                  |                        |
|------------------|------------------------|
| Basic Material   | Proprietary Polymer    |
| Consistency      | Paste                  |
| Color            | Black, Gray, and White |
| Odor             | Nil                    |
| Components       | 1                      |
| Type             | Elastomeric            |
| Specific Gravity | 1.4 to 1.6             |

### ***General Performance Properties***

|                      |  |             |
|----------------------|--|-------------|
| Movement Capability  | +25 to -25%                                      | ASTM C 719  |
| Shear Strength       | 220 psi (7 day ambient cure)                     | ASTM D-1002 |
| Tensile Strength     | 260 psi (7 day ambient cure)                     | ASTM C-412  |
| Elongation at Break  | 630% (7day ambient cure)                         | ASTM C-412  |
| Hardness Shore A     | 35 (14 day ambient cure)                         | ASTM C-661  |
| Initial Skin Forming | 22 minutes                                       |             |
| Slump (Sag)          | Zero Slump                                       | ASTM C-639  |
| Tack Free Time       | 35 minutes                                       | ASTM C-679  |
| Low Temperature Flex | -29° C   | ---PASS---  |
| Service Temperature  | -40°C to 93° C, temporarily resistant to 199° C. |             |

### ***Surface Priming***

While priming could always be an advantage, it should not be required except in cases of extreme service performance expectations or prolonged water immersion.

### ***Joint Design***

ASTM and SWRI guidelines recommend a joint width to joint depth ratio of 2:1 with the depth being no more than ½ inch thick but no less than ¼ inch thick. A backer rod or bond breaker tape should be utilized to prevent 3-point adhesion and ensure proper functionality of the CanSeal NS. The backer rod sizing should be 25% larger than the joint width to ensure a snug fit.

### ***CanSeal NS Application Instructions***

Although the CanSeal NS can be used at temperatures as low as -10°C, the recommended application temperatures are between 4°C and 34°C. If applied at lower temperatures the flow and cure characteristics will be affected. Ideally, the joint sealing or bonding process should occur at the mid-range point of the exposure temperatures expected long term. This will properly address the expected expansion and contraction of the joint or cyclic movement of the substrates.

Dispense the CanSeal NS into the prepped joint in a controlled manner to prevent pockets of air from being trapped within the sealant. If tooling of the CanSeal NS is required it should be done within 15 minutes after application. The CanSeal NS should skin-over in approximately 25 minutes depending upon the atmospheric conditions and temperature.

### ***Clean-Up***

Fresh, wet material can be removed with a light duty solvent such as isopropyl alcohol. Mineral spirits could also be considered. Cured material will require mechanical methods of removal. Do not expose finished applications to excessive cleaning solvents.

### ***Compliances***

ASTM C920, Type S, Grade NS, Class 25/25, Uses NT, M, A, G and O.

Federal Specification TT-S-001543A, Type II, Class A, Type Nonsag

Federal Specification TT-S-00230C, Type II, Class A

Canadian Standards Board CAN 19, 13-M87 Type 2

USDA Compliant for non-contact use in areas involving meat and poultry

### ***Package Options***

10.3 fluid ounce cartridges

28 fluid ounce cartridges

5 gallon pails

50 gallon drums

Disclaimer: The information we provide is accurate to the best of our knowledge, but we do not assume any liability as to its accuracy or completeness. We do not guarantee that any hazards that we may mention are the only hazards that exist. User is responsible to determine the suitability of this product for user's intended application. User is responsible for determining that he can meet all applicable health and safety standards and regulations. We have no control over transportation, storage, handling and use of product and will not be liable for any damages resulting from their use.

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