

ADTHANE 1800 SERIES

Polyurethane adhesive sealant

DESCRIPTION

ADTHANE 1800 SERIES is a single component polyurethane based elastomeric sealant / adhesive that was design for construction and industrial application. It can be painted. It forms a highly elastic, tear and weather resistant joint. ADTHANE 1800 SERIES can be use for sealing facade elements for interior and exterior application usable in cold climate. It adheres without primer on substrates commonly used like wood, anodized aluminum, polyester, glass, concrete, baked clay, stone, ceramic tiles. For difficult materials, including plastics such as PVC, ABS, PMMA or materials such as raw aluminum or lacquered metal, perform preliminary tests to determine whether a surface preparation is necessary.

Due to its vulcanization system in contact with moisture, the depth of the bead should not exceed 1/2 " (13 mm), otherwise the sealant cannot vulcanize completely. Minimum movement joint should be 1/4" x 1/4". ADTHANE 1800 SERIES meets ATSM C920, type S, grade NS, class 25, use T1, NT, A, M, G and CAN/CGSB-19.13-M82.

PHYSICAL PROPERTIES

Uncured	
Appearance	Pasty
Color	Various
Density	Black: 1.15 ±0.02 – others: 1.16 ±0.02
Application temperature	41°F to 95°F (5°C to 35°C)
Tack free time (ASTM C679) at 73°F (23°C) – 50% R.H.	Approx. 70 minutes
Cure time at 73°F (23°C) – 50% R.H.	1/8" after 24 hours
Extrusion rate (ASTM C1183)	35 to 50 ml / minute
V.O.C.	93 g/L

Cured	
Shore A hardness (ASTM C661)	Approx. 40
Effect of aging (ASTM C1246)	Pass
Stain and color change (ASTM C510)	None
Peel strength adhesion (ASTM C794)	20 pli (on mortar)
Peel strength adhesion (ASTM C794)	21 pli (on aluminum)
Movement capability (ASTM C719)	
Elongation at break (ASTM D412)	≥ 600%
100% modulus (ASTM D412)	58 psi
Tensile strength (ASTM D412)	250-300 psi
Service temperature	-40°F to 176°F (-40°C to 80°C)

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- Precast concrete (expansion joint)
- Doors and windows (perimeter joints)
- Construction joints
- Siding

Industrial

- HVAC cabinet
- Truck and trailer sealing
- Adhesive for roof bows (truck and trailer)
- Refrigerated counter
- Boat sealing

SURFACE PREPARATION

Surface must be free of dust, oil, grease, frost, or any other contaminant. On porous surface, first use mechanical tool such as grinder to remove old sealant or any other contaminant. Use ADSEAL CLEANER 6003 to clean all surfaces. Let it evaporate 20 minutes before sealant application. Ensure that the backer rod ADSEAL BACKER ROD SR-2600 is friction fitted properly and ADSEAL PRIMER MK60095 have been applied if necessary. When using ADSEAL PRIMER MK60095 let evaporate for 20 minutes prior to ADTHANE 1800 SERIES application.

METHOD OF USE

ADTHANE 1800 SERIES is easy to apply with a conventional manual, electric or pneumatic applicator (do not exceed 45 psi for a cartridge). Shape the sealant bead with the appropriate tool. To facilitate the work, the shaping can be done with a solution of 5% clear dish soap and 95% water. Dip the ADSEAL TOOLING KIT into the solution. Avoid applying solution directly to the sealant. The use of this solution may reduce sealant adhesion if used in an abusive manner. Always perform a test on painted surfaces to ensure the adhesion.

CONSUMPTION (10.2OZ CARTRIDGE)

Nozzle diameter (inch)	0.08	0.118	0.157	0.197	0,236	0.275	0.315	0.354	0.394
Length of chord (feet)	312	138	79	49	34	25	18	15	11



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STORAGE

12 months in closed original packaging stored in dry premises at a temperature lower than 77°F (25°C). In cold weather, store the packaging at about 68°F (20°C) before use.

CLEANING

Sealant should be clean with solvent before curing. After curing, abrasion is necessary.

PACKAGING

Cartridge 10.1 oz (300 ml) or sausage 13.5 oz or 20 oz. (400ml or 600 ml)

CAUTION

Always consult Safety Data Sheet (SDS) before using the adhesive. For industrial use only. For more information, please contact your technical representative.

IMPORTANT

READ CAREFULLY

The information and recommendations contained herein are derived from our research and information from other reliable sources. This data applies only to our products and not when used with other products. We believe in the reliability of our information. However, no guarantee is offered to that effect. It is the responsibility of the buyer to verify this data according to their own operating conditions to ensure that they conform to the purpose for which the product is intended, even before using it.

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