

TECHNICAL DATA SHEET

MANUS-BOND® 75-A XTREME SILICONE

PRODUCT DESCRIPTION:

Manus-Bond® 75-A Xtreme Silicone is a one-component, non-slump silicone sealant that cures to a tough, medium-modulus, elastomer when exposed to room temperature atmospheric moisture. It is designed for general construction sealing applications and for glazing details found in fenestration and industrial fabrication and installation industries. This neutral cure (oxime) silicone system exhibits excellent adhesion to aluminum, steel, glass, wood, silicone rubber, many common construction materials, various plastics, and a variety of painted surfaces, including, for example, Kynar®. The tack-free time and fast strength build-up characteristics are excellent, allowing movement without bond-line failure. 75-A Xtreme Silicone meets the requirements of ASTM C920, Type S, Grade NS, Class 50; AAMA 802.3, 803.3, 805.2, and 808.3; and Federal Specifications TT-S-001543A and TT-S-00230C.

Features	Advantages
<ul style="list-style-type: none"> • Broad temperature range • Contains no solvents or isocyanates • Negligible shrinkage during cure • Flexible in low temperatures 	<ul style="list-style-type: none"> • Excellent tack-free and cure times • Excellent cohesive strength after cure • Excellent resistance to heat, cold, water, ozone, and UV rays

Characteristic	Typical Value or Result ¹
Uncured Properties	
Appearance	Paste
Color	Clear, white, aluminum, black. Other colors available.
Curing Mechanism	Moisture/Oxime
Tack-free Time	30 minutes
Curing Time (77°F, 50% RH), 3/8" depth	7 days
Density (g/cc)	1.03 ± 0.02
Slump	< 0.1"
Cured Properties	
Tensile Strength (PSI)	≥400
Elongation	≥350%
Movement Capacity:	±50%
Hardness: (Shore A)	30 ±5
Vehicle Migration/Staining	None
Service Temperature Range:	-60°F to 350°F
VOC	46 g/l

¹ The values are typical or an approximation for the material and are not intended for use in specifications. Field or environmental conditions or application methods may yield different results.

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APPLICATION GUIDELINES:

Surface Preparations and Directions of Use:

Apply to clean dry surfaces. Cleaning of metal, glass or plastic surfaces should be by a solvent wipe procedure or by mechanical means. Detergent or soap and water cleaning treatments are not recommended. In all cases where used, solvents shall be applied with one clean cloth or a lintless paper towel, and wiped clean with a second cloth or towel. Cleaning solvents should not be allowed to air dry or evaporate without wiping. Finished sealant bead should not exceed ½” wide by ½” deep. Closed-cell polyethylene backer rod can be installed so that the sealant depth is not less than ⅛” or more than ½”.

Precautions:

Manus-Bond® 75-A Xtreme Silicone is not paintable. If your application requires a paintable sealant, consult Manus Products for recommended alternatives. Some applications, cleaners, or solvents may not be compatible with this product. Compatibility testing is mandatory where 75-A Xtreme Silicone is in direct contact with any other sealant, elastomer, thermal-break compound, or paint. Use with adequate ventilation. Inhalation of vapor during application and cure may cause eye or throat irritation. In case of contact with eyes, lips, or mouth, flush thoroughly with water. If irritation persists, consult a physician. Avoid repeated, prolonged contact with skin. See SDS for additional information. KEEP OUT OF REACH FROM CHILDREN.

Clean Up:

Excess cured material must be cut or scraped away followed by wiping with isopropyl alcohol, aromatic or ketone-type solvents. The use of these solvents (or other solvents) may be hazardous to your health. KEEP AWAY FROM OPEN FLAME. Tools and application equipment may be cleaned with the same solvent. Follow the precautions and instructions of the solvent manufacturers.

User Evaluation:

TESTING FOR SUBSTRATE COMPATIBILITY AND ADHESION MUST BE PERFORMED BY THE USER BEFORE PROCEEDING WITH FULL APPLICATION OR INCORPORATION. PRODUCT MAY NOT BE COMPATIBLE WITH ALL SUBSTRATES, SURFACES, USES, OR APPLICATIONS.

PRODUCT STORAGE:

The product has shelf life of 13 months after production date in its original packaging (unopened) in a cool, dry place. For maximum shelf life, store unopened containers at temperatures not exceeding 80°F in cool, dry conditions. Keep away from wet areas, direct sunlight and heat sources.

PACKAGING AND SIZES:

Manus-Bond™ 75-A Xtreme Silicone is available in 10.1 fl. oz. cartridge, 20 fl. oz. sausage packs, and 1-gallon, 5-gallon, and 55-gallon containers. Standard colors are clear, white, aluminum, and black; other colors available upon request.

TECHNICAL SERVICE:

Manus technical representatives are available to provide assistance. Please contact our Technical Service Department with your questions or requests for specific applications.

LIMITED WARRANTY:

ANY GOODS PROVED DEFECTIVE WILL BE REPLACED OR THE PURCHASE PRICE REFUNDED. THE LIMITED WARRANTY DESCRIBED HEREIN IS IN LIEU OF ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE. THE USER SHALL DETERMINE SUITABILITY OF THE PRODUCT FOR ITS INTENDED USE. LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGE OR LOSS IS EXCLUDED. THE USER ASSUMES ALL RISKS OF THE PRODUCT'S USE, HANDLING, AND STORAGE.

TO THE BEST OF MANUS'S KNOWLEDGE, THE INFORMATION CONTAINED IN THIS TECHNICAL DATA SHEET IS CORRECT AND BASED ON OUR KNOWLEDGE AND EXPERIENCE TO DATE. ACCORDINGLY, THE INFORMATION CANNOT BE USED AS A GUARANTEE DUE TO THE DIFFERENT MATERIALS PRESENT ON THE MARKET AND THAT THE APPLICATION CONDITIONS ARE NOT UNDER OUR DIRECT CONTROL. MANUS MAY MODIFY OR UPDATE THIS TECHNICAL DATA SHEET WITHOUT NOTICE AND ANY OBLIGATION TO NOTIFY ANY USER OF CHANGES. CUSTOMERS SHOULD VERIFY THAT THEY HAVE THE LATEST VERSION.

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