

TECHNICAL DATA SHEET

MANUS-BOND® 27-A HIGH SOLIDS CO-POLYMER

PRODUCT DESCRIPTION:

Manus-Bond® 27-A Clear High-Solids Co-Polymer is a one-component, non-slump superior quality and performance durable thermoplastic architectural and Industrial adhesive/sealant. 27-A forms a tough flexible seal between many similar and dissimilar materials. It has excellent adhesion to aluminum, galvanized steel, metal, concrete, masonry, fiberglass, wood, plastic vinyl (PVC), and glass. It creates a long lasting seal with excellent resistance to weathering and UV. It conforms to the performance requirements of the Federal Specification TT-S-0230C and several of standards that are applicable to silicone and polyurethane sealants.

Features	Advantages
<ul style="list-style-type: none"> • Excellent adhesion to broad building materials • Does not require painting • Paintable with most paints if required • Extreme Flexibility and durability • Remain Flexible and permanent elasticity 	<ul style="list-style-type: none"> • Rapid Skin and tack-free time • Excellent cohesive strength after cure • Excellent resistance to heat, cold, water, ozone, and UV rays • Ease application, does not require priming

Characteristic	Typical Value or Result ¹
Uncured Properties	
Appearance	Paste
Color	Clear
Curing Mechanism	Solvent
Tack-free Time	20 minutes
Curing Time (77°F, 50% RH), 3/8" depth	7 days
Density (g/cc)	0.90 ± 0.02 (For Clear)
Slump	< 0.1"
Cured Properties	
Tensile Strength (PSI)	≥350
Elongation	≥500%
Movement Capacity:	±25
Hardness: (Shore A)	35±5
Vehicle Migration/Staining	None
Service Temperature Range:	-22°F (-30°C) to 122°F (50°C)
VOC	322 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:

DANGER: FLAMMABLE LIQUID AND VAPOR

Sealant contains xylene. Keep away from heat, sparks, and open flames. Avoid prolonged breathing of vapors and repeated contact with skin. Inhalation of vapor during application and cure may cause eye or throat irritation. Use with adequate ventilation. In case of contact with eyes, lips, or mouth, flush thoroughly with water. If irritation persists, consult a physician. See SDS for additional information. KEEP OUT OF REACH FROM CHILDREN. Manus-Bond® 27-A is paintable with most sealants. Compatibility testing is mandatory where 27-A is in direct contact with any other sealant, elastomer, thermal-break compound, or paint. Some applications, cleaners, or solvents may not be compatible with this product.

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 a shelf life of 12 months after production date provided the product is stored in its original packaging (unopened) in a cool, dry place not exceeding 80°F. Keep away from wet areas, direct sunlight, and heat sources.

PACKAGING AND SIZES:

Manus-Bond™ 27-A is available in 10 fl. oz. cartridge and 1-gallon, 5-gallon, and 55-gallon containers. Standard color is clear. For other colors see Manus Bond 27-C.

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.

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