



TECHNICAL DATA

MANUS-BOND 77HR MODIFIED POLYURETHANE HIGH PERFORMANCE SEALANT/ADHESIVE

1. PRODUCT DESCRIPTION:

Manus-Bond 77HR Modified Polyurethane Sealant/Adhesive is based on silylated prepolymer. This “hybrid” system overcomes the limitations of typical polyurethanes without sacrificing performance. 77HR is solvent-free, non-isocyanate and is non-yellowing. 77HR offers superior primerless adhesion to large variety of substrates and has excellent paintability. Exhibits low dirt pick-up, fast cure and is non-staining on porous surfaces. 77HR has excellent UV resistance and is highly durable in the harshest environments, including chemical resistance to jet fuels and road salts. Conforms to TTS-0230C an ASTM C920. USDA accepted.

2. TECHNICAL DATA:

Specific Gravity	1.50-1.54
Skin Time (minutes) 75°F 50% RH	20-30
Viscosity (cps) Spindle T-E at 5 rpms	500,000 cps
% Elongation *Rate = 2"/minute	350%
Tensile Strength *Rate = 2"/minute	180 psi
100% Modulus	75 psi
Hardness Shore A	35-45
Service Temperature	-75°F to 350°F
Boeing Flow (inches)	0.0-0.1

3. **PACKAGING:**

10.1 fl.oz. cartridge, 10.1 and 20 fl.oz. sausage packs, 5 gallon and 55 gallon containers.

4. **SURFACE PREPARATION:**

Apply to clean, dry surfaces free of contaminants that can adversely affect adhesion. Remove all old sealant before applying 77HR. Testing a small area for compatibility is recommended.

5. **PAINTING:**

Cured product may be painted with most industrial & consumer paints. Testing prior to painting is recommended.

6. **STORAGE LIFE:**

For maximum shelf life, store unopened product at or below 80°F.

12 months = cartridges and sausage packs

6 months = 1, 5 and 55 gallon containers

7. **PRECAUTIONS:**

Some applications may not be compatible with this product. Testing suitability for intended application before proceeding with full application is recommended. Use with adequate ventilation. Inhalation of vapor during application and cure may cause slight 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 MSDS for additional information. **KEEP OUT OF REACH FROM CHILDREN.**

8. **TECHNICAL SERVICE:**

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

9. **LIMITED WARRANTY:**

Any goods prove 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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