



TECHNICAL DATA

MANUS-BOND 33-MS PAINTABLE MODIFIED SILICONE

1. PRODUCT DESCRIPTION:

Manus-Bond 33-MS is the “NEW GENERATION” in sealant technology. 33-ms exhibits superior adhesion to aluminum, stainless steel, glass, wood, concrete, masonry, stone, precast, EIFS, many plastics and a wide variety of other substrates. This “NEW GENERATION” sealant is extremely weather resistant and paintable, making it ideal for many industrial and construction (interior and exterior) applications, including wood and aluminum window frames, expansion and control joints, tilt-up panel joints, doors, flashings and many other sealing applications. Meets all of the requirements of ASTM C920, Type S, Grade NS, Class 25, Use NT, M, A, G and O.

2. TECHNICAL DATA:

TEST	REQUIREMENT	RESULTS
Rheological Properties		
Vertical	3/16" max. flow	
122°F		None
44°F		None
Horizontal	No deformation	
122°F		None
40°F		None
Extrusion Rate	>10mL/min.	340 mL/min.
Hardness-Shore A	Between 15 and 50	25-35
Effects of Heat Aging		
Weight Loss	7% max.	1.2%
Cracking	None	None
Chalking	None	None
Tack Free Time	72 hours max.	1-3 hours
Adhesion & Cohesion Under Cyclic Movement		
Glass	1½ sq. in. max. total bond loss	No bond loss
Aluminum	1½ sq. in. max. total bond loss	No bond loss
Mortar	1½ sq. in. max. total bond loss	No bond loss
Adhesion-in-peel		
Glass	5 lbf minimum 25% adhesive loss max.	15 lbf – no adh. loss
Aluminum	5 lbf minimum 25% adhesive loss max.	15 lbf – no adh. Loss
Mortar	5 lbf minimum 25% adhesive loss max.	20 lbf – no adh. Loss
Adhesion-in-peel after UV Exposure through glass	5 lbf minimum 25% adhesive loss max.	15 lbf – no adh. Loss
Effects of Accelerated Weathering	UV exposure – Cracking Figure – 2 max.	No cracking
	Cold Temp. – Cracking Figure - 2 max.	No cracking
Stain & Color Change	No stain or discoloration	No stain
Service Temperature		-75°F to 108°F

3. PHYSICAL PROPERTIES:

Color	White, Colonial White, Cedar, Gray, Black, Minnesota Gray, Dark Bronze, Beige, Buff, Other colors available upon request.
Density	1.43 – 1.49
Shelf Life	12 months

4. PACKAGING:

10.3 fl.oz. cartridges, 10.3 and 20 fl.oz. sausage packs, 1, 2, 5 and 55 gallon containers. Other packaging available upon request.

5. SURFACE PREPARATION:

Apply to clean, dry surfaces free of contaminants that can adversely affect adhesion. Remove all old sealant before applying product.

6. PAINTING:

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

7. STORAGE LIFE:

Twelve months stored under normal storage conditions. For maximum shelf life, store unopened product at or below 80°F.

8. PRECAUTIONS:

For industrial use only. Do not take internally. KEEP OUT OF REACH FROM CHILDREN. Refer to SDS for complete safety and health information.

9. 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.

10. 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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