



## PRODUCT DATA

# 403.21

## FREEZE THAW STABLE THUMBING COMPOUND

### DESCRIPTION

403.21 is a premium thumb grade sealing compound especially formulated to be stable through multiple freeze/thaw cycles. It is used in the assembly of refrigerator and freezer cabinets or wherever freeze/thaw stability is important.

403.21 is non-staining, non-hardening and non-drying. It has aggressive adhesion and gives cohesive failure on most commercially clean surfaces without any special preparation. 403.21 has resistance to the following types of fungus:

- Chaetomium globosum
- Aspergillus niger
- Aspergillus flavus
- Penicillium funiculosum.



403.21 is available in a variety of sizes including beads, tapes, slugs or flat, cut to length pieces.

### PROPERTIES

Property	Test Method	Typical Values
Color	ASTM D1729	Off-white to light gray
Odor		None
Service Temperature		-20°F to 350°F (-29°C to 177°C)
Needle Penetration, 100-g.	ASTM D1321	95 – 105 dmm
Specific Gravity	ASTM D297	1.67 ± 0.05 g/cm <sup>3</sup>
Weight per Gallon		13.9 ± 0.5 pounds/gallon
Discoloration from Ultraviolet Light Exposure	ASTM D1148, 2,000-hours UVA-340 exposure	No apparent change
Actual Exposure	2-years exposure in an equatorial climate while in use in a functional air-conditioner.	No apparent change
Freeze-Thaw Stability	25,000-cycles of 6-min @ -30°F + 1-minute @ 90°F with flowing water.	Pass
Flammability	FMVSS 302	Pass. Burn rate <1-inch/minute.
Shelf Life		Non-hardening material that may be stored indefinitely.

## **REGULATIONS and SPECIFICATIONS**

FDA Regulation: Meets U.S. Food and Drug Administration (FDA) regulation 21 CFR 175.105 – Indirect food additives: Adhesives and components of coatings. For substances that may come into contact with food as part of packaging or processing equipment, but are not intended to be added directly to food.

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