

# ND EXPANDABLE MASTICS

ND Industries' heat expandable mastic products are used in a wide variety of applications providing economical solutions for the prevention of metal-to-metal contact, vibration, and noise-related problems (sometimes refered to as flutter). An excellent anti-flutter compound, ND Expandable Mastics are an extruded product made in standard, custom, or complex die cut shapes and thicknesses to meet customer requirements for sealing, noise dampening, and vibration reduction.



# PRE-APPLIED PROCESS INFORMATION

#### How It Works

ND Expandable Mastic extrusions are readyto-use in an uncured form and can be applied or bonded to any metal surface prior to the application of heat. When heat is applied, generally in a primer oven, a reaction takes place that causes the material to expand and adhere to the metal surfaces and create a seal while filling all space between the metals. Our product offers expansion rates ranging from 100% to 700%. The material is stable, nonvolatile, resistant to most chemicals, has a long shelf-life, and is compatible with production phosphatizing and paint systems.



When used as backing for sheet metal panels, it prevents flutter, seals, reduces vibration, and deadens sound.



In a cured or uncured state, ND Expandable Mastics secure the intended area from penetration by moisture, gases, dust, sound, and vibration.



ND Expandable Mastics will provide some metal-to-metal bonding once it is fully cured.



ND Expandable Mastics offer excellent adhesion to metal substrates - without additional adhesives or tape.



ND Expandable Mastics swell to fill the cavity it is placed in. Between two layers of sheet metal, the material acts as an insulator from moisture, air, dust, and noise.



ND Expandable Mastics are available in a variety of lengths and diameters to provide a quick and flexible response to a customer's need.

# CONTACT US

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### **PROCESS BENEFITS**

**Saves Time:** ND Expandable Mastics are easy to incorporate into high-volume production functions and can be applied with minimal time, effort, or training, or can be assembled for you by ND.

**Saves Money:** ND Expandable Mastics are inexpensive and yet provide excellent high-quality expansion and sealing.

Easy to Use: ND Expandable Mastics require minimal employee training for efficient use.

Meets Automotive Specs: ND Expandable Mastics meet specifications for the "Big Three" automakers.

### PRODUCT APPLICATIONS

Automotive Floor Boards, Firewall, Sound Deadening, Interior applications, Automotive Gaskets, Automotive Washers, Drain Plugs

### APPROVED SPECIFICATIONS

Meets or exceeds the performance requirements of the following specifications and/or standards:

- Chrysler: MS-CD64, MS-CD451, MS-CD451E, MS-CD466A
- Ford: ESB-M4G223-A, WSS-M18P11-B, WSS-M4G183-D
- General Motors: GM3640M, GM9984188A, GM9984188C, GM9984188E, GM9984192A, GM9984193A, GM9984193B, GM9984526B, GM9984526C

#### **OTHER NOTES**

- ND Expandable Mastics are stable, with a long shelf life.
- ND can specially formulate Expandable Mastics to meet customer specifications (e.g. penetrometers, expansion, etc.). ND will work with you to produce extremely high expansion rates – higher than any other Expandable mastic supplier.
- For unique applications, ND Industries can provide the material in custom die cut shapes.
- ND Expandable Mastics are non-staining, non-volatile, and require little cleanup in production operations.