



# SPECIALITY MINERAL PRODUCTS

A Product of New Enterprise Stone & Lime Co., Inc.

## MICRO MICA™ 105

Micro Mica™ 105 is naturally delaminated, wet processed, ultra-fine mica that offers a unique combination of fine particle size, platy shape, low surface area and low oil absorption. Micro Mica™ 105 is the finest particle size mica available on the market providing good barrier properties, low resin demand and good color. Micro Mica™ 105 is a functional pigment that provides exterior durability, crack resistance, chemical resistance and coverage in interior and exterior architectural and industrial coatings applications. In plastics and rubber, Micro Mica™ 105 features excellent reinforcement and barrier properties, chemical resistance and inertness, excellent electrical properties and good dispersion.

### Typical Properties

|                                     |       |
|-------------------------------------|-------|
| 200 Mesh Retained, %                | 0.0   |
| 270 Mesh Retained, %                | Trace |
| 325 Mesh Retained, %                | 0.1   |
| Median Particle Size (Microns)      | 9.0   |
| Color                               | White |
| L* (CIE 1976)                       | 88.5  |
| Bulk Density (lbs/ft <sup>3</sup> ) | 15.3  |
| Oil Absorption                      | 35    |
| Specific Gravity (g/cc)             | 2.7   |

### Typical Chemical Composition

|                                |      |
|--------------------------------|------|
| SiO <sub>2</sub>               | 55.1 |
| TiO <sub>2</sub>               | 1.7  |
| Al <sub>2</sub> O <sub>3</sub> | 28.3 |
| Fe <sub>2</sub> O <sub>3</sub> | 1.5  |
| MgO                            | 0.7  |
| Na <sub>2</sub> O              | 0.1  |
| K <sub>2</sub> O               | 5.5  |
| LOI                            | 7.0  |
| Moisture (H <sub>2</sub> O)    | <0.5 |

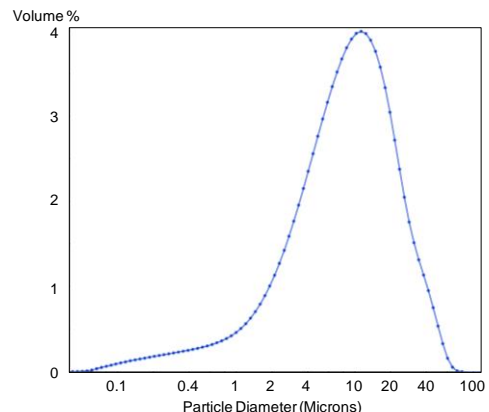
### Applications

|                        |                      |
|------------------------|----------------------|
| Industrial Coatings    | Rubber Mold Releases |
| Exterior Coatings      | Engineering Plastics |
| High Temp Coatings     | Gaskets              |
| Marine Coatings        | Sealants, Caulks     |
| Anti-Corrosion         | Foundry Coatings     |
| Stucco Coatings        | Asbestos Replacement |
| Architectural Coatings | Asphalt Roofing      |

### Micro Mica 105 Product Benefits

|                     |                        |
|---------------------|------------------------|
| Good Color          | Ease of Dispersion     |
| Low Resin Demand    | Increased Coverage     |
| Crack Resistance    | Reinforcing Properties |
| Barrier Protection  |                        |
| UV Resistance       |                        |
| Durability          |                        |
| Chemical Resistance |                        |

### Particle Size Distribution



NOTE: The statements herein are based on data which is believed to be reliable. This data is offered in good faith and typical of normal production. New Enterprise Stone & Lime Co., Inc. makes no warranty or representation, expressed or implied, regarding the accuracy of this data or the use of this product. The user is solely responsible for the use of this product. Updated 04/25/12