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## RubbaNite 45 (RN-45) Description & Highlights:

*A highly polar, hydrocarbon-based powder derived from post-consumer asphalt shingles. Most particles are coated with asphalt and nucleated by a limestone particle. Unwanted shingle components such as surfacing granules, sand backing, glass fibers, and cellulose content have been removed, except for trace amounts. The end product is used as bulk raw material replacement of costly virgin materials while enhancing desirable characteristics in products such as: asphalt butyl flashing and tapes, rolled roofing and roofing cements, as well as crack sealant, seal coating, cold patch, and other mastics.*

## RN-45 Key Features & Benefits:

- Powder contains 30% asphalt and 70% limestone
- Limestone has a particle distribution with 100% passing through a 45-mesh screen. Specifically, 100% passes 45 mesh and 90% passes 60 mesh.
- Contains asphaltenes (~42%), resins (~21%), aromatics (~22%), and saturates (~15%).
- Bulk density approximately 40 - 45 lbs/ft<sup>3</sup> with approximately 1% moisture content.
- As asphalt ages, it oxidizes, becoming more polar.
- High polarity factor makes it an ideal additive for many adhesives and decreases the need for expensive polymers in many products.
- Powder has inherent black color that absorbs UV rays.
- Contains soft, pump-friendly, limestone fillers with a Mohs hardness of 1. Rock surfacing granules and sand (Mohs of 7) have been removed. Such removal is essential in the production of roofing products since it has been demonstrated that the hard particles etch and weaken both fiberglass and polyester mats.
- Highly suitable to "wet" since the limestone particles are coated with asphalt.
- RN45 has a very high softening point of 350°F, allowing for a cost-effective replacement of expensive polymers and resins.
- Powder can be used as a hardener where a higher softening point is desirable without raising viscosity.
- Blends readily with hot mixes and solvent mixes in less time and in most cases at lower temperatures.
- Increases tensile strength in many products.

## RN-45 Product Characteristics:

- Color: Black
- Odor: Mild asphaltic
- Form: Powder

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## RN-45 Packaging & Availability:

- Available in 1-ton super sacks or 40-pound bags that are meltable
- Pallet, half truckloads, and full truckloads available
- Samples available upon request