



Harmonite® C Product Data Sheet

Description

Harmonite C is an organic-encapsulated, inorganic composite powder currently available for applications requiring larger particles than standard Harmonite. Like other Harmonite powders, the organic phase is rich in polar resins and asphaltenes. The inorganic phase includes a blend of materials including calcium carbonate, aluminum oxide, Kaolin clay, glass fibers, titanium dioxide and other inert ingredients. Harmonite C is asbestos free.

Applications

Harmonite C is a versatile, multi-functional product that can be used as an economical base compound for building new product formulations or as a specialty additive. It is ideally suited for use in slip resistant surfaces for coatings or roofing membranes.

Chemical Compatibility

Harmonite C is compatible with a wide variety of commonly used formulation ingredients including: synthetic rubber compounds like butyl and SBR, as well as SBS & SIS block copolymers, C5/C9 and other resins, various petroleum pitch/bitumen, asphalts, naphthenic distillates and petroleum solvents.

Typical Composition		
Organics	14% +/- 3%	Asphaltenes (~42%) Resins (~21%) Aromatics (~22%) Saturates (~15%)
Inorganics	Balance	Calcium Carbonate Aluminum Oxide Titanium Dioxide Kaolin Clay Glass fiber Moisture Other inert ingredients

Note – Other inert ingredients include silica



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Product Characteristics			
Product Form	Finely divided, coarse grained powder		
Color	Black		
Odor	None		
Specific Gravity	2.4		
Bulk Density (average)	83 lbs/ft ³		
Softening Point	Approx 280 - 295°F (extracted organic)		
Flow Characteristics	Flows readily with minimal agitation upon removal from bags or super sacks – exhibits moderate compressibility with little to no cohesive properties during storage and transit. Live bottom active feed systems recommended for bulk storage.		
Particle Size Distribution	<table border="1"> <tr> <td>Sieve Analysis: Nominal ~97% between 16 mesh and 70 mesh (~1,200 - 212 μm)</td> <td>Volumetric Size Distribution: 90% <1,300 μm; 50% <820 μm, 10% <470 μm via Beckman Coulter laser diffraction analysis.</td> </tr> </table>	Sieve Analysis: Nominal ~97% between 16 mesh and 70 mesh (~1,200 - 212 μm)	Volumetric Size Distribution: 90% <1,300 μm; 50% <820 μm, 10% <470 μm via Beckman Coulter laser diffraction analysis.
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Shelf Life	12 months		
Solubility	Organic phase soluble in solvents like mineral spirits, aromatics like xylene, etc. and longer straight chain hydrocarbons. Insoluble in water and common alcohols.		
Reactivity	Polar resins/asphaltenes have been known to exhibit polymeric behavior via hydrogen bonding and van der Waals interactions.		
Application Methods	Brush, roll, or trowel depending on end formulation		

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