



NYAD® MARC 40

Performance Additive for Mastic Asphalt Roof Coatings

Key Features

- Improved plasticity (work-ability) while maintaining sag resistance
- Reduce cellulose for cost savings
- Enhanced durability and crack resistance due to acicular structure
- High melting point provides fire resistance properties
- Safe alternative to asbestos and other fibers

Formulation and Test Properties	Control (Wt.%)	NYAD MARC 40 (10 Wt.%)	NYAD MARC 40 (12 Wt.%)
Cone Viscosity (dmm)	288	385	330
Density (lb./gal.)	8.23	9.06	9.16
Uniformity	Pass	Pass	Pass
Work-ability	Moderate/Difficult	Easy	Easy
Pliability Behavior @ 0°C	Pass	Pass	Pass
Behavior @ 60°C	Pass	Pass	Pass
Asphalt Cutback	72.4	71.4	72.4
Surfactant	0.7	0.7	0.7
Clay	5.9	5.9	5.9
CaCO ₃	15.0	9.0	6.0
Cellulose	6.0	3.0	3.0

The performance data was obtained in accordance to ASTM D6511 by Momentum Technologies, an independent accredited testing laboratory.

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NYAD MARC 40 SEM and Typical Properties



Mesh Screen (%)	Typical Value
Minus 20 U.S. Mesh Screen	100
Minus 40 U.S. Mesh Screen	97
Minus 60 U.S. Mesh Screen	79
Minus 100 U.S. Mesh Screen	57

Typical Property	Value
Chemical Composition: Wollastonite	CaSiO ₃
Appearance	White
Morphology	Acicular
Molecular Weight	116
Specific Gravity	2.9
Refractive Index	1.63
pH (10% Slurry)	9.9
Water Solubility (g/100cc)	0.0095
Density (lbs./cu.ft.)	181
Mohs Hardness	4.5
Coefficient of Expansion (m m/mm/°C)	6.5 x 10 ⁻⁶
Melting Point (° C)	1540

Wollastonite is a naturally occurring mineral, is non-hazardous, and is not regulated by shipping agencies. Based upon toxicological studies, there is no evidence of any significant health risks to workers.

NYCO 's specialty wollastonite products are used in a broad range of paint and coatings including; Industrial and Marine, Powder, Architectural, Textured , Block Fillers, Traffic Paint and Roof coatings.