

NYCO[®] FIBERED ALUMINUM EMULSIFIED ASPHALT ROOF COATING - ASBESTOS FREE

NYCO SUPPLIES PREMIUM
QUALITY WOLLASTONITE
TO THE WORLD

NYCO is not only the foremost supplier
of wollastonite in the world,
we are also the first...

Since our pioneering plant at Willsboro,
New York opened in 1953, to our most
recent development of a world class
deposit in the Sonora desert of Mexico,
NYCO has led the world in its growing
acceptance of wollastonite.

- highest quality ores
- state of the art processing
- world class treatment facilities
- market leading reliability
& technical service
- 100's of years of reserves

This data contains general information and describes
typical properties only. It is offered for use by
persons qualified to determine for themselves the
suitability of our products for particular purposes.
No guarantee is made or liability assumed, the
application of this data and the products described
herein being at the sole risk of the user.

FORMULATION & PERFORMANCE REQUIREMENTS PER ASTM DXXXX PROPOSED, TYPE III

FORMULATION, WT%

ORDER OF ADDITION

Asphalt Emulsion, ASTM D1227, Type III* HydroPaste, Water Dispersable Aluminum Pigment <i>Mix 5-10 minutes - slow speed**</i>	66.0 25.0
PMF [®] Fiber LS <i>Mix 5-10 minutes - slow speed**</i>	2.4
NYAD G [®] Wollastonite <i>Mix 5-10 minutes - slow speed**</i>	6.6

* Assure appropriate biocides have been added.

** Mixer - 1 gallon, laboratory, Hobart paddle mixer.

NOTE: pH of system is critical to prevent hydrogen gas generation.

TYPICAL COMPOSITION PROPERTIES

	TYPICAL	PROPOSED TYPE III ² REQUIREMENTS
Weight per gallon, lbs	9.3 - 9.5	8.4 - 10.0
Non-Volatile Matter, %	57 - 60	25 min.
Metallic Aluminum, %	15 - 17	None Established
Water, %	30 - 34	75 max.
Volatile Organic Content (VOC), %	<100 gm/ltr	None Established
Fiber or Mineral Stabilizer	8 - 10	None Established
Asphalt, %	30 - 33	None Established

² Proposed Specification for Aluminum Pigmented Asphalt Used in Protective Coatings
for Roofing, Subcommittee D08.09 on Bituminous Emulsions.

premium quality wollastonite

TYPICAL ASPHALT EMULSION PROPERTIES, ASTM D1227, TYPE III

TYPICAL	
Asphalt Emulsion Solids, %	47 - 53
Ash of Solids, %	8 max.
Brookfield Viscosity, @ 25°C	10,000 - 15,000
pH	6 - 7
Asphalt Component Ductility @ 25°C (5 cm/min.) Penetration @ 25°C, dmm Viscosity @ 60°C, P	40 min. 40 - 90 2400 - 3600
IMPORTANT: ASSURE LOW VISCOSITY	



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For detailed information on NYAD G®
Wollastonite please contact
NYCO Minerals, Inc.
(an ISO 9002 certified facility).

HEALTH & SAFETY STATEMENT: Wollastonite is a naturally occurring, non-hazardous mineral. The benign health aspect of wollastonite provides a compelling reason for its use in place of other industrial minerals and fibers.

PERFORMANCE PROPERTIES

UNIFORMITY	PROPOSED TYPE III ASTM DXXXX	
Mixability/Stirback, @ 25°C @ 72 hours @ 3 months	Easy Easy	Easy N/A
Water Separation/Settling, @ 25°C @ 72 hours @ 3 months Firm Set, Hrs. via ASTM D2939	None Trace <24	N/A N/A 24 hrs. max.
CONSISTENCY		
Application	Squeegee, brush, roller, spray	Same
Brookfield Heliopath @ 25°C, cps	<12,000	5,000 - 15,000
ACCELERATED WEATHERING, ASTM D4799, CYCLE B		
Reflectance, % - 0 QUV Hours, Initial	56.2	50 min.
250 QUV Hours	56.4	-
500 QUV Hours	54.0	45 min.
Sagging/Sliding	None	None
Loss of Adhesion	None	None
Blistering	None	None
Discoloration	None	None
Cracking	None	None
Resistance to Water	No re-emulsification No blistering	No re-emulsification No blistering
STORAGE STABILITY, PROPOSED ASTM		
Hydrogen Gas Generation (5 days)	<25 ml.	Not established

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