



dupré MicaShield™ Vermiculite Dispersion

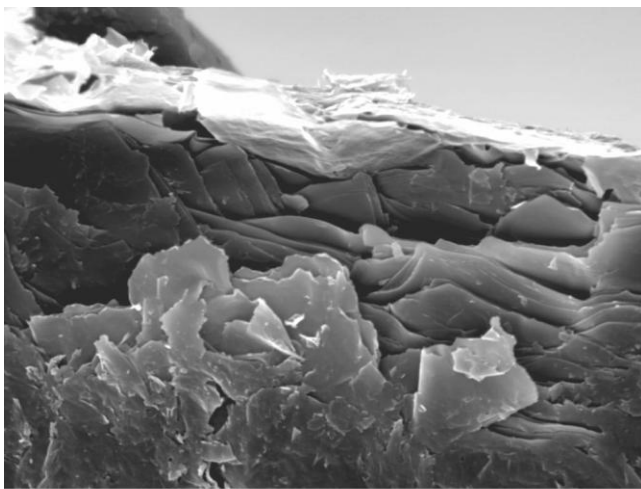
Description

Dupre Minerals MicaShield is a stable, water based dispersion, manufactured by the carefully controlled chemical exfoliation of specially selected vermiculite ore sources. The subsequent high aspect ratio of the MicaShield dispersion product range offer temperature resistant coatings up to 1100°C.

MicaShield is a none toxic, safe and easy to use product that is environmentally safe.

Why use MicaShield?

- *Protective coating for Fibre Glass Textiles*
- *Flame and Heat Protective Barriers*
- *Specialist Films/Coatings*
- *Industrial Fireproofing for combustible building materials*



Vermiculite Film G13

Electron Microscope Image 1

How to apply MicaShield

- *Conventional industrial textile coating techniques.*
- *Paint brush/paint roller direct onto the surface of walls, ceilings and flat, even surfaces.*
- *Spray direct onto large areas – this is more efficient in coating difficult to paint areas.*
- *Dipping.*

Typical Properties

Appearance

Dupré's MicaShield Aqueous Vermiculite Dispersion is a gold/brown aqueous suspension.

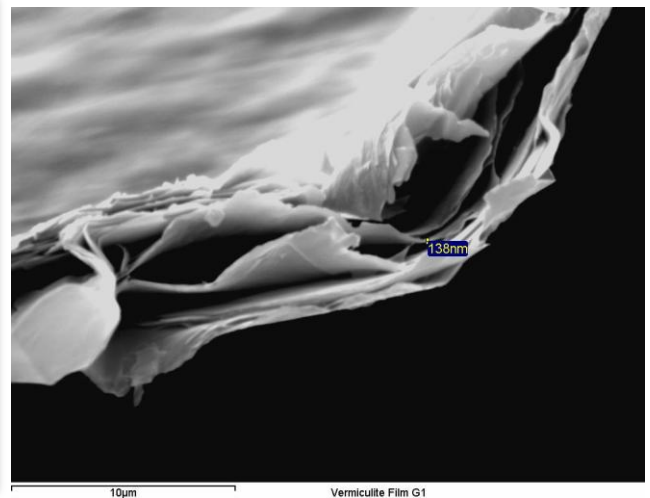
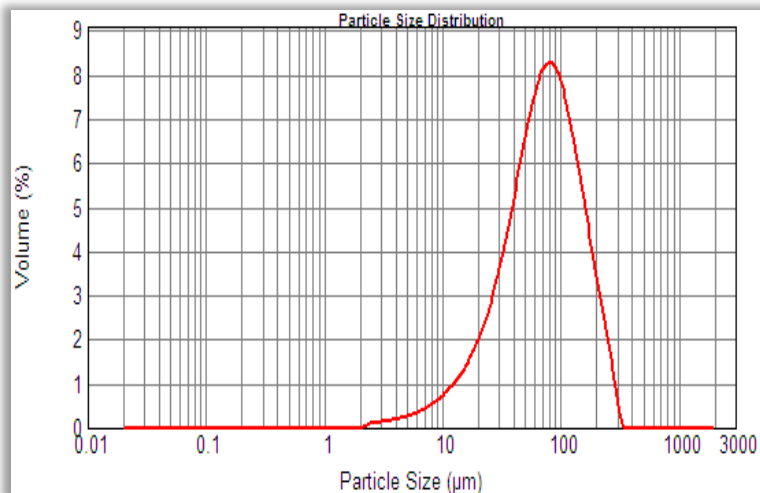
Physical Properties

Product Code	DM651
D90 (90% of particles less than)	<200 μm
Solids Content (%)	20-23%
Viscosity (cps)	5000-10,000*
*Viscosity can be adjusted according to requirements.	

Chemical Analysis (of Source Vermiculite)

SiO₂	39.4%	K₂O	4.5%	CO₂	1.4%
MgO	25.2%	Fe₂O₃	4.0%	TiO₂	0.8%
Al₂O₃	8.8%	CaO	1.8%	F	0.5%

Particle Size Analysis (Malvern Mastersizer 2000)



Electron Microscope Image 2

Information presented above is given in good faith as accurate and reliable but is not to be taken as a guarantee. The figures provided are intended to be a guide to expected average values and should not be interpreted as a specification. Any potential applications referred to are not to be construed as recommendations. It is the responsibility of the user to determine suitability for any specific purpose.

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