



Microspersion® 123AL-40

A nonionic water based dispersion of a highly engineered LDPE/aluminum oxide nanocomposite for unsurpassed scratch and scuff resistance

Features and Benefits

- Convenient, ready-to-use, pourable nonionic wax dispersion
- Maximum scratch and abrasion resistance for anti-slip surfaces
- LDPE composite reinforced with 300 nm aluminum oxide nanoparticles (Mohs Hardness 9)
- Provides excellent antiblocking properties
- Does not lower COF like high density polyethylene grades
- Composite wax/aluminum oxide particle is less abrasive on processing equipment compared to free aluminum oxide

Dry Wax ID

MPP-123AL

Recommended Addition Levels

2.0-5.0% (on total formula weight)

Systems and Applications

Water based coatings and inks. Industrial coatings (including plastic, metal and leather); architectural wall and trim paints; stains, sealers and varnishes; wood coatings; printing inks and OPV's (including flexo and gravure); floor coatings.

Typical Properties*

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Wax Solids	40%
Viscosity @ 25 °C (cP)	5,000 - 9,000
pH	9.0 - 10.5
Density @ 25 °C (g/cc)	0.98
Wax Mean Particle Size (µm)	9.5 - 12.5
NPIRI Grind	4.0 - 6.0

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