



### **Microspersion® 123AL-40**

A 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 water based 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

#### **Typical Properties\***

##### **Microspersion 123AL-40**

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

#### **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.

Dec-25