

## Dry Process PU Synthetic Leather

### Description

A nonionic modified multi-polymer silicone auxiliary agent generally used in dry and wet PU processes or resins

### Functions

- Reduces the surface tension of the PU slurry system
- Raises the wetting ability and anti-adhesive properties to the substrate
- Increases the surface smoothness
- Improves leveling property and luster
- Prevents the formation of Bernard cells

### Technical Specifications

Appearance: Straw yellow or colorless transparent liquid

Density: 1.04 ±0.01g/ml (25<sup>0</sup>C)

Structure: Nonionic

Composition: Non volatile matter ≥98%

### Application Functions

#### Dry PU process

Prevents adhering and stripping and increases reuse ability of the release paper. Prevents electrostatic charges.

#### Wet slurry

Improves flowability, reduces bubbles during the production processes and eliminates pin and shrinkage holes.

### Dosage / Use

0.025~0.4% of the total system

### Packaging and storage

Standard packaging: 50kg plastic drum

Storage: Drum tightly sealed and away from direct light, between 0~35<sup>0</sup>C.

Use within 12 months.

## Dry Process PU Synthetic Leather

### **Description**

Organosiloxane added to dry PU dry process slurry

### **Functions**

- Drives out moisture and prevents pinholes, sag, oil spots, colour variations, shrinkage gaps, and other problems associated with excessive water content
- Significantly improves the reuses of the release paper
- Improves surface smoothness and scratch resistance

### **Specifications**

Appearance: Colorless transparent liquid

Density: 0.96g/ml @ 20°C

Flash point: 101°C

Composition: Active content ≥99.5%

### **Application**

Before use agitate with diluted PU resin for 30 minutes then add dye

### **Dosage**

0.05~0.3% of the total system

### **Packaging and storage**

Standard packaging: 50kg plastic drum

Storage: Drum tightly sealed and away from direct light, between 0~35°C.

Use within 12 months

## Dry Process PU Synthetic Leather

### Description

Active organic agent

### Functions

- Excellent anti-foaming and leveling properties
- Adds stability by modifying PU synthetic leather surface tension during coating ensuring smoothness and prevention of problems as pinholes and concave spots on the synthetic leather surface

### Specifications

Appearance: Straw yellow or colorless transparent liquid

Composition: Non volatile matter  $\geq 98.5\%$

### Dosage / Use

1. The general dosage is 0.02~0.5% of the total PU resin system
2. For wet PU process base with thickness  $\geq 1$ mm increase the amount accordingly
3. For dry process PU resin let sit still for 15 minutes before use
4. For wet PU process base it is recommended to use vacuum resin degassing equipment before use

*NOTE: It is advised to make a small test before use to confirm effect and dosage*

### Packaging and storage

Standard packaging: 50 & 125 kg plastic drums

Storage: Drum tightly sealed between 0~35°C.

Use within 12 months.

## Dry Process PU Synthetic Leather

### **Description**

Anti Viscidity additive

### **Functions**

- Excellent anti viscosity and smoothing effects
- Prevents BASE surface adhesion to itself
- Increases wear & damage resistance
- Especially suitable for low modulus wet and dry resins and processes

### **Specifications**

Appearance: Fawn brown liquid

Composition: Non volatile matter  $\geq 99\%$

### **Dosage / Use**

0.8~1.2% of the total system

Add to dry process PU slurry

Add to wet process PU slurry

### **Packaging and storage**

Standard packaging: 50kg plastic drum

Storage: Drum tightly sealed and away from direct light, between 0~35°C.

Use within 12 months.

## Dry Process PU Synthetic Leather

### Description

Strongly hydrophobic polyether modified polysiloxane

### Functions

- Aids in stripping the synthetic leather from the release paper significantly increasing its reusability
- Reduces surface tension effective in leveling and adds anti-adhesion properties
- Prevents pin & shrinkage holes, uneven colour from uneven dye / pigment dispersion, water spots, sags, partial pattern imprinting and casting lines
- Especially effective with deep and fine patterned, patent, high gloss and matt release paper

### Specifications

Appearance: Colorless high viscosity transparent liquid

Refraction index: 1.439 ±0.001

Density: 1.03 ±0.001g/ml @ 20°C

Composition: Non volatile matter ≥97%

### Dosage / Use

0.15~0.2%

### Packaging and storage

Standard packaging: 50kg metal drum

Storage: Drum tightly sealed and away from direct light, between 0~35°C.

Use within 12 months

NOTE: There may be layering of the product during extended cold storage, warm to room temperature (20°C) before use

## Dry Process PU Synthetic Leather

### Description

Dispersant / wetting

### Functions

- Excellent wetting ability for metal flake and pearlescent pigments
- High performance wetting dispersant for organic and inorganic pigments
- Excellent colour spread properties fully developing the pigment colour
- Meets basic dispersant demands of various types of pigments used in synthetic leather production processes

### Specifications

Appearance: Straw yellow or colorless transparent liquid

Composition: Non volatile matter  $\geq 98\%$

### Dosage / Use

For pigment slurry 0.5~1% of the total system

For PU synthetic leather colour combination add 0.1~0.3 parts to 100 parts PU resin with 30% solid content mixing thoroughly

NOTE: It is recommended that tests are conducted for application and dosage before use

### Packaging and storage

Standard packaging: 50kg plastic drum

Storage: Drum tightly sealed and away from direct light, between 0~35°C.

Use within 12 months.