

# SIP-1132-1

## Roof Treatment Emulsion

Technical  
Data Sheet



SoyLei Innovative Products introduces SIP 1132-1, a chemically modified soybean oil emulsion engineered to react and restore roofing products such as asphalt, PVC, and EDPM. Its formulation is tailored to decelerate and reverse aging effects in asphalt and restore plasticizers to PVC and EDPM. Through this unique interaction, SIP 1132-1 provides a cost-effective, eco-conscious choice for extending life and improving performance of asphalt, EDPM, and PVC roofing materials.

### SIP 1132-1 CHARACTERISTICS

APPEARANCE	White
SOLIDS CONTENT (%)	5-15
ODOR	No Odor
VISCOSITY @ 25°C	10-50 Cp
BIODEGRADABLE	YES
DRY TIMES @ 70-80°F, 50% RH	
Tack free	30 min
Foot Traffic	1hr
Full cure	1-2 hrs
pH	Neutral
FREEZING POINT	32.0°F
FLASH POINT	None
SPECIFIC GRAVITY @ 25°C	0.98

### PRODUCT USES:

- Asphalt Shingles
- Flat Asphalt Roof
- PVC tiles
- EDPM tiles

### PACKAGING SIZE:

- 5-gallon Pail
- 55-gallon Drums
- 275-gallon Tote
- Tanker (45,000 lbs.)

### STORAGE AND HANDLING:

**Shelf Life:** 6 months with proper storage.

**Materials:** Compatible with carbon steel, 304/316 stainless steels, polyethylene, PVC, CPVC.

**Storage:** Ambient temperatures ideal. Freezing below 32°F; Optimum 60-110°F.

**Handling:** Mix before use by stirring 5-10 minutes. If using hold tank, agitate before dispensing.

**Pumps:** Centrifugal, gear, or diaphragm pumps suitable.

### MIXING AND APPLICATION:

- Use above 40 °F
- Mix after long storage if settling occurs
- Spray on surface using a spray applicator

**Apply Material:** 200 ft<sup>2</sup> per gallon

### ASPECT PROPERTIES AND PERFORMANCE:

Aspect Properties	Control Treatment	(No Market Leader	SIP 1132	Benefits
Color Gray Scale	-	1%	-	Improved the black color
Granule Adhesion	-	-17%	50%	Improved resistance to hail damage
Tear Strength Reduction	-	29%	14%	Decreased the tear resistance
Pliability Testing (55°F)	Fail	Pass	Pass	How brittle the shingles is from aging
Fire Resistance (Burn Pattern)	-	-	-	Controls the spread of fire per area
Hail Impact	Pass	Fail	Pass	Maintains hail resistance

