

PCA-1 Wetting and Dispersing Agent

General Description

PCA-1 wetting and dispersing agent is a non-ionic surfactant designed for use in waterborne and solvent-based paint formulations. It improves pigment dispersion, stabilizes pigment particles, and enhances the flow and leveling of paints.

Key Features & Benefits

- **Excellent Wetting Properties:** Facilitates the uniform wetting of pigments and fillers.
- **Enhanced Dispersion:** Reduces pigment agglomeration, providing stable, finely dispersed particles.
- **Compatibility:** Suitable for both aqueous and solvent-based systems.
- **Improved Stability:** Prevents settling and flocculation of pigments over time.
- **Environmentally Friendly:** Biodegradable and low-VOC.

Physical and Chemical Properties

Property	Value
Appearance	Light yellow viscous liquid
pH (1% solution)	5.0–7.0
HLB (Hydrophilic-Lipophilic Balance)	12–14
Viscosity (@25°C)	100–300 cP
Solubility	Soluble in water and organic solvents
Specific Gravity (@25°C)	1.02–1.05

Applications

- **Paints:** Promotes uniform pigment distribution in decorative and industrial coatings.
- **Inks:** Improves flow and dispersion of dyes and pigments in printing inks.
- **Adhesives:** Enhances compatibility and stability in adhesive systems.

Usage Recommendations

- **Dosage:** Typically 0.5–2.0% by weight of total formulation, depending on pigment type and concentration.
- **Method of Addition:** Add during the pigment dispersion phase for optimal performance.

Storage and Handling

- **Storage Conditions:** Store in a cool, dry place away from direct sunlight.
- **Shelf Life:** 12 months from the manufacturing date when stored properly.
- **Handling Precautions:** Avoid contact with skin and eyes. Use personal protective equipment during handling.

Regulatory Compliance

The product is compliant with international regulations for use in industrial formulations. Consult your local regulatory body for specific compliance details.

Packaging

Address: No. 60 Golfam Street, Unit 37

Nelson Mandela Blvd., Tehran, IRAN

Phone: +9821 2202 4214

Email: info@omidpouyanfarda.com

Omid Pouyan Farda Co.

Available in:

- 4 lit plastic containers
- 20 lit drums
- 200 kg barrels

For further technical support or safety data, please contact:

Omid Pouyan Farda Co.

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