

Dispersing agent for water-based systems
Ionic Homopolymer dispersant

Typical Characteristics

Nature	Polyacrylate sodium salt
Appearance	Pale yellow liquid
Solid Content (%)	43
Active Content (%)	43
pH	7.5
Brookfield viscosity (mPa.s)	350
Specific gravity	1.32
Neutralization type	Sodium
Solvent	Water

Description

Dispersion paints are usually formulated with fillers or extenders, particularly the very fine calcium carbonates and clays now available. Their dispersion in water based systems must be achieved easily with common stirrers without forming agglomerates or causing a viscosity build up. Usual inorganic dispersants such as phosphate based dispersants are not able to solve this problem satisfactorily: their deflocculating effectiveness is limited by the fineness of the extenders used and their poor temperature stability (degradation through hydrolysis) affects the long term stability of paints. Ecodis™ PE 2737 has been especially developed to ensure the complete dispersion of extenders and inorganic pigments at high solids contents in systems showing medium to high PVC (Pigment Volume Concentration).

Recommended addition level

The required amount varies from 0.1% to 0.5% of active ingredients based on the total weight of the pigments and fillers. A more easy way is to start formulation trials using 0.4% to 0.5% of Ecodis™ PE 2737, as delivered, on the total formulation weight. It is recommended to disperse the pigments in a pH range between 7.0 and 9.5.

Standard Packaging

Other packaging may be available upon request

- 1000L IBC
- 220L Drum
- Bulk

Handling & Storage

It should be protected from the effects of weathering and stored between 5 and 40°C. Once opened, packaging should be resealed immediately after use. In these conditions, this product should be used within 12 months from delivery.

Processing instructions

Ecodis™ PE 2737 should be preferably added to water before the pigment incorporation. The optimum level is determined for each pigment blend by plotting the graph of the viscosities of the pigment dispersion in water, versus the amount of dispersant. The level of dispersant corresponding to the minimum viscosity is chosen. To be easily pumpable, it should be used about 20°C.

Health and environmental data

For safe handling please refer to the Safety Data Sheet. For more information about health and environmental data, please contact us.

Adhesives & Sealants

- Assembly
- Sealants

Coatings & Inks

- Architectural Coating
- Graphic Arts
- Textile & Leather Coating
- Traffic Paint

Key Benefits

Formulation

- Compatibility
- Cost in use
- Easy handling

Storage

- Antisettling
- Floating resistance
- Syneresis resistance

Film Properties

- Hiding power/Opacity

APEO free: Yes

Bacteria resistance: Yes

Heavy metal free: Yes

Solvent-free: Yes

PVC

PVC Low	●●●○○
PVC Mid	●●●●○
PVC High	●●●●●

Suitable for

Fillers	●●●●●
Organic pigments	●●○○○○
Inorganic pigments	●●●○○○