

MEGH

MEGH[®] SPERSE E 15

HIGH-PERFORMANCE POLYMERIC DISPERSION FOR
OPACITY ENHANCEMENT IN ARCHITECTURAL COATINGS



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MEGH®SPERSE E 15 is a high molecular weight ethylene-acrylic copolymer wax dispersion developed to act as a **polymeric opacifying agent in water-based paints**.

Its technology **enhances the optical efficiency of the formulation**, improving dry and wet hiding while enabling partial **reduction of titanium dioxide (TiO₂)**, maintaining the performance of the final coating.

Key Benefits

- **Enhanced Hiding Power:** improves dry and wet hiding performance of the coating.
- **TiO₂ Optimization:** increases pigment efficiency, enabling partial reduction of titanium dioxide.
- **Gloss Retention:** preserves the visual appearance of the paint.
- **Improved Resistance:** enhances scrub resistance of the paint film.
- **Formulation Flexibility:** compatible with different architectural coating systems.
- **Cost Reduction:** lowers primary pigment consumption without compromising performance.

Applications

- **Architectural Coatings**
Water-based interior and exterior paints
- **Decorative Coatings**
Economy and premium systems
- **Formulations with Different PVC Levels**
Low, medium, or high PVC paints

Sustainability and Efficiency

- Enables formulations with **lower VOC content**
- Reduces dependence on **titanium dioxide**, a high-cost material with significant environmental impact
- Contributes to more efficient and **sustainable coating systems**



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TECHNOLOGY

How **MEGH®SPERSE E 15** works:

MEGH®SPERSE E 15 features polymeric particles with controlled size and distribution, close to that of TiO_2 , allowing it to function as an **ultrafine extender that enhances light scattering within the paint film.**

This effect improves particle packing in the formulation, **increasing the optical efficiency of the system and the hiding performance of the coating.**

Technology Differentials

- Spherical and non-porous particles
- Low specific surface area
- Higher light-scattering efficiency
- Improved TiO_2 utilization
- With an average particle size close to **0.40 μm** , MEGH®SPERSE E 15 operates within the ideal range to **maximize opacity and pigment efficiency in the formulation.**

Main Properties

- Physical state: Opaque liquid
- Weight solids: 30%
- Volume solids: 52%
- pH: 8.4
- Brookfield viscosity: < 200 cPs



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in the formulation.