

Chempart Pro - W21 Emulsifier

Chempart Pro - W21

Description

Chempart Pro - W21 Is an aqueous solution of nitrogenated chelating agent with oligomers of carbon hydrates used to create a stable emulsion between alkyd resins, water and solvents in synthetic enamels and other solvent based coatings with good gloss and dryness properties.

Properties

Test	Result
Appearance	Yellowish,clear to cloudy liquid
Ionic Character	Anionic
Nonvolatile content	60% ±2
Density@25°C	1.25±0.05 g/ml
Viscosity@25°C	400 - 800 cp @ sp5 / rpm 50

*Theoretical values are listed. Actual values may vary depending on test method and coating composition.

Use and dosage.

- **Chempart Pro - W21** should be added at 1.5 – 2.5% over the total weight of the water content.
- **Chempart Pro - W21** is incorporated and homogenizes readily in all other coating ingredients.
 - **Direct water addition:**
 - After the total addition of the **Chempart Pro - W21** on the prepared mill base this should be mixed minimum for 5 minutes before incorporation of the water. Then water should be added continuously and gradually for a period of approximately 5 minutes under sufficient agitation. Laminar flow should be maintained because in turbulent conditions, the efficiency of formation of the emulsion is very poor. After adding the total quantity of water, the mixture should be maintained under agitation of 20 M/S keeping laminar flow for a period of 15-20 minutes, in order to guarantee a stable emulsion with very small size particles.
 - **Pre-emulsion preparation:**
 - **Chempart Pro - W21** can be prepared as a pre-emulsion. In this case, the **Chempart Pro - W21** can be incorporated upon the homogenization of the resin with the Mineral Spirit then water should be added gradually into the vortex and after its all addition; agitation should continues for 20 - 30 minutes to ensure complete homogenisation. A speed of 20 M/S should ensure excellent formation and stability of the emulsion .
 - This pre-emulsion can then be mixed with the mill base and dispersed to complete the coating for required adjustments.

Our recommendations regarding our products are based on in-depth tests developed by our Technical Department.

Add: 10th Of Ramadan City, P.O Box 1093 Code 44635 Tel.: +20 55 4362 023 Fax: +20 55 4362 375 E-mail: welcome@chempart-eg.com

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Advantages In Use

- Does not impede the oxidative drying process as will amine based technologies.
- Providing superior colloidal stability in the resin emulsion with minimum impact on film properties.
- Maintaining excellent gloss and gloss retention.
- Non-migratory character from physical polymer entanglement thus improving mechanical properties..
- Achieving excellent performance in terms of whitening and yellowing resistance.
- Absolute compatibility with a wide range of solvent systems.
- Achieving good formation stability in pumping that not influenced by pump type or rotation used.
- Satisfying regulation limits of the VOC.
- Maintaining thinning the final coating with mineral spirits or other alkyd solvents.
- Significant cost reduction, easy incorporation.
- Indicated for long, medium and short alkyd resins.

Handling and safety

Please read carefully the MSDS of the product.

Packing

- **Chempart Pro - W21** is supplied in plastic drum with fixed cover of 250 Kg or containers of 1200 Kg;
- **Chempart Pro - W21** has a recommendable shelf life of 2 years;
- **Chempart Pro - W21** should be stored out of direct sunlight and in a ventilated facility.

Version
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