Technical Information

Dispex® Ultra FA 4483

(old: HYDROPALAT® 7003)

BASF
The Chemical Company

general

Dispex® Ultra FA 4483 is a dispersing agent for inorganic pigments and stabilizing surfactant for latex production.

chemical nature

phosphoric acid ester based wetting and dispersing agent. The product is supplied as a 30 % aqueous solution in acidic form.

Properties

physical form

clear viscous liquid

shelf life

subject to appropriate storage under the usual storage and temperature conditions, our products are durable for at least 2 years.

typical properties (no supply specification)

solids	~ 30%
viscosity 23 °C (73°F)	~ 1700 mPa·s
pH value (10%)	~ 2
acid number [mg KOH/ g]	~ 25
Color number (Gardner)	~ 1

Application

Dispex® Ultra FA 4483 is an excellent dispersing agent for inorganic pigments like iron oxide, titanium dioxide, calium sulfate (gypsum), etc.

it is recommended for the following applications:

- inorganic pigment concentrates and slurries
- in combination with non-ionic dispersing agents, e.g. Dispex® Ultra FA 4480 for universal pigment pastes(also suitable for solvent based coatings.
- aqueous physically drying as well as stowing enamels

to achieve the best results Dispex® Ultra FA 4483 should be added to the mill base and ground using effective dispersing equipment, e.g. pearl-mill.

Dispex® Ultra FA 4483 is also an effective emulsifier for the manufacture of emulsion polymers, especially for:

- protective colloid-free vinyl acetate homo polymers
- vinyl acetate co-polymers
- acrylate homo-and copolymers

Dispex® Ultra FA 4483 can be neutralized with alkaline substances like aminomethylpropanol (AMP).

recommended concentrations typical dosages are:

pigment Additive	active on pigment
• titaniumdioxide	2 - 5%
• plaster	2 - 3%
• transparent iron oxide	15 - 25%

Safety
When handling these products, please comply with the advice and information given in the safety data sheet and observe protective and workplace hygiene measures adequate for handling chemicals.

Note
The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights, etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. The agreed contractual quality of the product results exclusively from the statements made in the product specification. It is the responsibility of the recipient of our product to ensure that any proprietary rights and existing laws and legislation are observed.

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