

Hydropalat[®] WE 3475

(old: HYDROPALAT[®] 875)



The Chemical Company

general

highly efficient wetting agent

Hydropalat[®] WE 3475 is a very good wetting agent with only a medium tendency of foam formation in aqueous solutions or in polymer dispersions. The relatively low critical micelle concentration of approximately 1 g active substance/l and the strong reduction in surface tension of aqueous solutions, even when using low concentrations, make Hydropalat[®] WE 3475 an ideal surface active agent.

Hydropalat[®] WE 3475 is just slightly water-soluble. The water solubility may be increased by the addition of a small amount of a solubilizer allowing

solubility of up to 80 % to be achieved. Diluting Hydropalat[®] WE 3475 with water is possible up to a certain extent, but liquid-crystalline gel type phases may occur in the region of approximately 50 % active substance.

chemical nature

anionic compound

Properties

physical form

low viscous, clear 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)

pH value (10%)	~ 6.5
Solid content	~ 75%
Sodium sulfate	< 1%

Application

Hydropalat® WE 3475 is used as a wetting agent in aqueous coatings, printing inks and related systems. On account of its good wetting properties it is particularly suitable for difficult-to-wet substrates such as plastics and metal surfaces, cellulose film, aluminium and plastic foils, silicone treated papers or glass.

Hydropalat® WE 3475 can be used to optimise the compatibility (color acceptance) of aqueous pigment concentrates in different coatings.

Hydropalat® WE 3475 can be incorporated either into the pigment concentrate or directly into the base paint. It can also be used as "Post additive". Hydropalat® WE 3475 may be used as an emulsifier for the emulsion polymerization of practically all types of monomers. The polymer dispersions stabilized by means of Hydropalat® WE 3475 excell

by their very good wetting properties. If outstanding wetting properties of a dispersion must be combined with high mechanical stability, we recommend the use of Hydropalat® WE 3475 together with our highly ethoxylated non-ionic surfactants of the Disponil LS, TA or NP type.

recommended concentrations

Hydropalat® WE 3475 may be incorporated at any stage of the manufacturing process, although to ensure good substrate wetting it is advisable to add it after grinding by stirring vigorously.

0.1 - 1.0% active substance, calculated on the finished coating.
the exact dosage should be determined by appropriate test.

the recommended dosages of Hydropalat lies between 1 - 5% calculated on total formulation of the pigment concentrate. When added directly to the paint, dosages of 0,3 - 1% Hydropalat on total formulation show good results.

the amount required for polymerization depends on the type and quantity of starting monomers, the production method and the desired properties of the polymer dispersion. Generally it lies between 1 and 3% active substance, calculated on monomer content.

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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