

Hydropalat[®] WE 3650

general

Hydropalat[®] WE 3650 is a highly effective wetting agent for water based coating and ink applications. The product shows excellent dynamic surface tension reduction in combination with low foam stabilization.

Hydropalat[®] WE 3650 can effectively be used in lacquers or inks that show problems regarding substrate wetting or cratering. Due to its wetting properties the product can also have a positive effect on ink transfer and adhesion.

chemical nature

Modified alkoxyate

Properties

physical form

Clear, colorless to slightly yellow liquid

shelf life

When stored under the usual appropriate storage conditions, the product can be stored for 2 years.

physical properties

Active ingredients	100%
density	~ 0,97 g/cm ³

Application

Hydropalat® WE 3650 is a highly efficient substrate wetting agent, suitable for coatings and inks applications (incl. OPV's and clear varnishes). Hydropalat® WE 3650 provides excellent dynamic wetting properties combined with low foaming behaviour.

Hydropalat® WE 3650 is 100% active, liquid and solvent free. Formulators are therefore not affected in their formulations by solvents used typically in some wetting agents used on the market. Hydropalat® WE 3650 has been successfully tested in inks for flexible substrates and PVC wallpaper inks but also for water borne coatings (e.g. stoving enamels.) and outperforms commonly used wetting agents.

Due to its excellent compatibility and action with commonly used resins (e.g. Joncryl 90, Joncryl 617, Joncryl 538, Joncryl FLX types and other resins for coating systems), Hydropalat® WE 3650 hardly affects the gloss of such coatings and ink systems. Also Hydropalat® WE 3650 can act as a sort of compatibilizer and therefore reduces cratering and pinholes – if appearing.

Hydropalat® WE 3650 has been found to be effective in improving colorant acceptance, similar to other Hydropalat WE products, for example in wallpaper inks but also for paint applications.

Hydropalat® WE 3650 can positively influence ink adhesion in those cases where an ink has not the optimum wetting properties for a substrate. In such a case ink adhesion might improve with substrate wetting.

Hydropalat® WE 3650 can also positively influence ink transfer due to its ability to effectively improve the dynamic wetting properties of an ink.

recommended concentrations

The recommended use level for Hydropalat® WE 3650 is 0.1 – 2% calculated on total formulation.

Hydropalat® WE 3650 can be added at any stage during the production process. When added during the dispersion process, it speeds up pigment wetting.

When Hydropalat® WE 3650 is used at high concentrations it might cause slight turbidity. This can be solved by decreasing the amount of product or by adjusting polarity of the formulation.

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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