

# Hydropalat<sup>®</sup> WE 3477

(old: HYDROPALAT<sup>®</sup> 875 PG)



The Chemical Company

## general

highly efficient wetting agent

Hydropalat<sup>®</sup> WE 3477 is an excellent wetting agent with only a medium tendency to foam in aqueous solutions or polymer dispersions. The relatively low critical micelle concentration of approximately 1 gm active substance/l and the strong reduction in surface tension even at low concentrations, make Hydropalat<sup>®</sup> WE 3477 an ideal surface active agent.

Hydropalat<sup>®</sup> WE 3477 is just slightly water-soluble. This may be increased by the addition of a small amount of a solubilizer (IPA) allowing solubility of up to 80% to be achieved. Diluting Hydropalat<sup>®</sup> WE 3477. with water is possible but only up to a certain extent, liquid-crystalline gel type phases may occur in the region of ca 50% active substance.

## chemical nature

sulfocarbon acid ester, sodium salt in water / Propylenglycol

## Properties

### physical form

clear to pale yellowish 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	~ 77%
Sodium sulfate	< 1.0%

## Application

Hydropalat<sup>®</sup> WE 3477. is used as a wetting agent in aqueous coatings, printing inks and related systems. Due to its excellent 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<sup>®</sup> WE 3477. may also be used to optimise the compatibility (colour acceptance) of aqueous pigment concentrates in different coatings.

Hydropalat<sup>®</sup> WE 3477. should be incorporated either into the pigment concentrate or directly into the base paint. It can also be used as a "post additive".

Hydropalat® WE 3477 may be used as an emulsifier in the polymerization of practically all types of monomers. The polymer dispersions stabilized with Hydropalat® WE 3477 exhibit excellent wetting properties. If such wetting properties must be combined with our highly ethoxylated non-ionic surfactants of the Disponil LS, TA or NP types.

#### **recommended concentrations**

Hydropalat® WE 3477 may be incorporated at any stage of manufacture, although to ensure good substrate wetting it is advisable to add after the grind stage with stirring.

typical dosages usually lie between 0.1 – 1.0% active substance, calculated on the finished coating. The exact dosage should be determined by appropriate test.

for pigment concentrates the recommended dosage lies between 1 - 5% calculated on total formulation. As a post additive, for addition directly to finished paints, dosages of 0,3 - 1% Hydropalat® WE 3477 on total formulation show good results.

#### **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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