

# EDAPLAN<sup>®</sup> 470

## TECHNICAL INFORMATION

### Wetting agent and dispersant for water-based and solvent-based coatings

**Composition:** Solution of acrylic polymer with pigment affinic groups in butyldiglycol

**Appearance:** liquid  
**Colour:** yellowish, clear

**Typical Properties:**

Active ingredients:	approx. 50 %
Consistency:	medium viscosity
Density at 20°C:	approx. 1.04 g/cm <sup>3</sup>
Flash point:	approx. 67 °C
pH (2% in dist. water):	approx. 4
Acid number:	approx. 110 mg KOH/g

*This information is intended as a guideline only and should not be used to issue specifications. Slight deviations do not affect application and capability of the product. For specifications please consult the Certificate of Analysis.*

**Properties/applications:** EDAPLAN 470 is a wetting agent and dispersant for organic and inorganic pigments and extenders in aqueous media and also suitable for solvent-based systems. It is ideal for the manufacture of flood/float-free aqueous coatings systems (air dry and force dry, 2K-systems) as well as for the manufacture of aqueous and glycol containing resin-free pigment concentrates. EDAPLAN 470 stabilizes dispersed pigments and extenders and reduces the mill-base viscosity. Gloss, colour strength and hiding power are improved and reflocculation is prevented.

**Recommended levels/use:** The product is supplied in the acid form, insoluble in water. It is recommended to dose the required quantities of neutralizing agent (alkali or amine) before adding the dispersant. The product may also be used pre-neutralized (Caution: Heat evolution).  
The amine quantity is calculated by  $[\text{acid number} \cdot M_w\text{-amine}] / [560 \cdot \text{conc.-amine}]$ . Depending on the neutralizing agent (e.g. AMP 90), additional dilution by water or water miscible solvent may be necessary to improve handling.  
Ladder studies are recommended to determine optimum concentration level. Normal dosage ranges from 0.5 - 10 % for inorganic pigments and from 5 - 30 % for organic pigments, calculated on pigment solids. For dosage recommendations of specific pigments and for determination of dispersant demand please consult our additional technical information.

**Storage/handling:** EDAPLAN 470 ist not sensitive to freezing but for better handling it should be stored between 15 and 25 °C. The minimum shelf life in closed containers is 15 months from the date of manufacture.

**Packaging:** Drums holding 150 kg net and kegs holding 25 kg net.