TECHNICAL INFORMATION

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NEWOTEC® 350

Product Category: Dispersing agent for aqueous plastic dispersions

Fields of Application: Dispersions of plastic powder in water (e.g. hot melts)

Product Characteristics: multi-purpose dispersant for plastic powder dispersions

effective at low concentration levels

> easy to use

Chemical Composition: Aqueous emulsion containing modified polyglycol ethers, acrylic

polymers, hydrocarbons, defoamer and vinylpolymers

Technical Data: Appearance (20 °C): white - yellowish pasty liquid

> Active content: approx. 40-45%

Flash point: >200 °C

Boiling range: approx. 100°C (water) approx. 0°C (water) Solidification range:

Compatibility: compatible with most commonly used plastic powders like CoPA, CoPES, PU

and others

Storage: Shelf life: in originally sealed drums, approximately

> one year from the date of delivery under the conditions recommended below

Storage Conditions: Recommended storage temperature:

min +3°C, max +40 °C Protect from moisture

Packaging: drums

Use concentration: Approx. 2 to 6%, referring to the weight of the ready-to-use

dispersion

The quantity needed depends on how much plastic powder has to

be dispersed as well as on the viscosity of the resulting dispersion. Therefore we recommend to carry out pilot tests to

determine the optimum dosage.

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NEWOTEC® 350

Application:

NEWOTEC® 350 is a multi-purpose dispersing agent for various types of plastic powder in water. Fields of application are hot melt dispersions, screen printing pastes, coating systems mainly in the textile industry.

NEWOTEC® 350 can be used to disperse plastic powders in water (like CoPA, CoPES, PU, EVA and some PE grades).

Below is a general guideline how to formulate hot melt pastes for use in screen printing processes (values in % by weight):

water	60.0
NEWOTEC® 350	4.0
hot melt powder (CoPA, CoPES 0-80µm)	30.0
NEWOTEC® 570 (printing agent)	6.0
NEWOTEC® 503 (thickener)	as needed

First, NEWOTEC® 350 is premixed with water until a homogeneous and smooth emulsion is obtained. The use of a high-speed stirrer with a dissolver blade will accelerate the process. Then the powder is added in portions whilst stirring at high speed. Continue mixing until a homogeneous dispersion without particle agglomerations is obtained.

Before adding the printing agent it is essential to reduce the speed of the stirrer as NEWOTEC® 570 is very sensitive to high shear forces. NEWOTEC® 570 is easily water-soluble and requires only low speed mixing for a short time (less than a minute in most cases).

The next step of the paste preparation is to adjust the final viscosity of the dispersion (again at low speed!). This can be done by adding approximately 0-1% of our thickener NEWOTEC® 503 to the paste, depending on the desired viscosity. If NEWOTEC® 503 is not at hand, the addition of a little more NEWOTEC® 350 will do the same (approx. 0-2%).

The data in this technical information are derived from practical experience. They do not guarantee specific product properties or the suitability of the product for particular applications. Lab or pilot tests should be carried out in any case. Due to many different possible process conditions we cannot assume any liability. Any existing industrial patent rights have to be respected. Additional information on product properties pertaining to working safety as well as environmental protection can be found in the material safety data sheet.