

TYPE

Levelling, wetting and antifoaming agent for waterborne paint systems

FORM OF DELIVERY (f.o.d.)

Active substance

approx. 58 %

PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219
dynamic viscosity [mPa.s] 800 - 2000
(25 1/s; 23 °C)

pH-Value DIN ISO 976
pH-value 8 - 10
(10 %)

Non-Volatile Matter DIN EN ISO 3251
non-volatile matter [%] 48 - 52
*
(1 h; 125 °C; 1 g)

Not continually determined:

Colour / Appearance VLN 250
colour colourless to yellowish
appearance clear to opaque

Dynamic Viscosity DIN EN ISO 3219
dynamic viscosity [mPa.s] 310 - 640
40 % propylene glycol monomethyl ether
(25 1/s; 23 °C)

Density (Liquids) DIN EN ISO 2811-2
density [g/cm³] 1,00
approx.
(20 °C)

Flash Point DIN EN ISO 1523
flash point [°C] 23
approx.

SPECIAL PROPERTIES

Enhances surface properties of the films and prevents film defects like insufficient wetting and structured surfaces owing to impurities.

SUGGESTED USES

Additol XW 395 is an additive specially designed for Resydrol paint systems and, compatibility provided, for other waterborne paint systems. Considering the levels and restrictions given below Additol XW 395 can be used in any water dilutable paint with the exception of electrodeposition paints. Additol XW 395 prevents film defects, such as craters and pin holes or can remedy poor wetting owing to impurities brought into the aqueous paint during preparation or processing.

Insufficiently degreased metal is the main cause for such troubles. With Additol XW 395 wetting problems are avoided. It should be noted that film defects arising from silicone oils in many cases cannot be prevented with Additol XW 395.

Additol XW 395 prevents floating of pigments, striation, orange peel, etc. and improves the film surface in general. Additol XW 395 at the recommended levels, does not impair the physical properties of the stoved film. In primers Additol XW 395 may cause a certain degree of gloss. Additions of Additol XW 395 may adversely influence the effect of antifoaming agents; on the other hand, it can remedy unfavourable effects of the antifoams. In aqueous paints for spray application Additol XW 395 can be used without precautions, while in dipping or flow coating paints Additol XW 395 must be carefully balanced with the antifoams normally present.

There are no general rules for the levels of paint additives. Overdose leads to surface defects, reduces the efficiency of antifoams or impairs intercoat adhesion. Thus optimum formulations have to be worked out for each paint system. Amounts of 0.2 - 1 % of Additol XW 395 on Resydrol resin solids may serve as a guide.

PROCESSING

We recommend to disperse Additol XW 395 thoroughly in the resin prior to pigment dispersion or prior to the final adjustment with water to application viscosity. If Additol XW 395 is added to the finished paint, it should be admixed carefully in diluted form.

STORAGE

At temperatures up to 25 °C storage stability packed in original containers amounts to at least 730 days.

SPECIAL INDICATIONS

Additol XW 395 does not have unlimited storage stability. It should be stored coolly and protected from sunlight. The pH value should be controlled regularly and adjusted with triethylamine if necessary.

* Note

The non-volatile matter content of a product is not an absolute quantity but depends upon the temperature and period of heating used for the test. Consequently, when using this method, only relative and not true values for non-volatile matter content are obtained owing to solvent retention, thermal decomposition and evaporation of low molecular mass constituents. The method is therefore primarily intended for testing different batches of the same type of product.

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