

AQUACER 1013

VOC-free HDPE-based wax emulsion for improving the surface protection in aqueous coatings and printing inks as well as in aqueous care products and polishes.

Product Data

Composition

Non-ionic emulsion of an oxidized HD polyethylene wax

VOC-free (<1500 ppm)

Typical Properties

The values indicated in this data sheet describe typical properties and do not constitute specification limits

Non-volatile matter (60 min., 257 °F): 35 %
Carrier: Water
Melting point (wax content): 275 °F
Viscosity (73 °F, D=800/s): 60 mPa·s
pH value: 9.2

Food Contact Legal Status

For the current food contact legal status, please contact our product safety department or visit www.byk.com for further information.

Storage and Transportation

Temperature sensitive. To be stored and transported between 5 °C / 41 °F and 35 °C / 95 °F.



Applications

Liquid Coatings

Special Features and Benefits

The additive improves the scratch resistance in aqueous coatings. The black heel resistance is increased in parquet coatings.

Recommended Use

Architectural coatings	
Wood coatings	

 especially recommended  recommended

Recommended Levels

1-6 % additive (as supplied) based on the total formulation – in exceptional cases up to 8 %.

The above recommended levels can be used for orientation. Optimal levels are determined through a series of laboratory tests.

Incorporation and Processing Instructions

The additive should preferably be incorporated at the end of the production process using low speed agitation. Mix well before use.

Printing Inks

Special Features and Benefits

The additive improves the scratch resistance and scrub resistance resistance.

Recommended Use

For aqueous printing inks and overprint varnishes.

Recommended Levels

3-14 % additive (as supplied) based on the total formulation.

The above recommended levels can be used for orientation. Optimal levels are determined through a series of laboratory tests.

Incorporation and Processing Instructions

The additive should preferably be incorporated at the end of the production process using low speed agitation. Mix well before use.

Care Products and Polishes

Special Features and Benefits

AQUACER 1013 is compatible with all known polymer dispersions, resin solutions, plasticizers, film-forming agents and surfactants. The wax emulsion is characterized by good polishability and its dirt-repellent effect. The above-mentioned properties are generated by mixing with polymers in a ratio of 3:1 (solid wax to solid polymer). Mixing at a ratio of 1:6 increases the water and alcohol resistance, scuff resistance and the protection against shoe heel marks (= foot traffic resistance).

Recommended Use

AQUACER 1013 is used in self-polishing floor care products for all types of floors, e.g. for hard floor surfaces such as stone, granite, and marble, as well as soft floors such as parquet, PVC, linoleum and rubber.

Recommended Levels

5-10 % additive (as supplied) based on the total formulation.

The above recommended levels can be used for orientation. Optimal levels are determined through a series of laboratory tests.

Incorporation and Processing Instructions

AQUACER 1013 is preferably added after mixing the polymers with the plasticizers and water but prior to incorporating surface-active substances, while stirring. Mix well before use.



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