AQUACER 513

HDPE-based VOC-free 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., 125 °C):	35 %
Carrier:	Water
Melting point (wax content):	135 °C
Viscosity (23 °C, 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 and 35 °C. Stir before use.

Applications

Coatings and Printing Inks

Special Features and Benefits
The additive improves the scratch resistance in aqueous coatings. It increases the abrasion resistance in printing inks, as well as the resistance to black heel marking in parquet coatings.

Recommended Use

Architectural coatings	■
Wood coatings	□
Printing inks	□

■ especially recommended □ recommended

Recommended Levels
1-6 % additive (as supplied) based upon total formulation for coatings.

3-14 % additive (as supplied) based upon total formulation for printing inks.

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 post-added using low speed agitation. Stir well before use.

Care Products and Polishes

Special Features and Benefits
AQUACER 513 is compatible with all known polymer dispersions, resin solutions, plasticizers, film-forming agents and surfactants. The wax emulsion exhibits good polishability and dirt repulsion. These characteristics are brought out by blending AQUACER 513 with polymers in a 3:1 ratio (solid wax on solid polymer). A mixing ratio of 1:6 increases the water- and alcohol-resistance, the abrasion resistance, and protection against heel marks (= foot traffic resistance).

Recommended Use
AQUACER 513 is used in self-shine floor care products for all types of floors, e.g., with 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 upon 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 wax additive is preferably added with stirring after blending the polymers with the plasticizers and water, although before the incorporation of surface active substances.

BYK-Chemie GmbH
P.O. Box 10 02 45
46462 Wesel
Germany
Tel +49 281 670-0
Fax +49 281 65735

info@byk.com
www.byk.com/additives