# AQUACER 8500

Emulsion based on an oxidized low density polyethylene wax which is an excellent mold release agent and provides also improvement to surface properties of aqueous care products.

AQUACER 8500 is only available in USA, Mexico and Canada.

## Product Data

**Composition**
APEO-free, anionic emulsion of an oxidized low density polyethylene wax

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

| | |
|---|---|
| Non-volatile matter (ASTM D2834): | 30 % |
| Carrier: | Water |
| Melting point (wax component): | 110 °C (230 °F) |
| Viscosity (25 °C, Brookfield DV-I): | < 100 mPa·s |
| pH value (ASTM E70): | 9 |

**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**
Keep from freezing. To be stored and transported at a temperature between 5 °C (41 °F) and 35 °C (95 °F).

## Applications

### Release Agents for Metal Die Casting

**Special Features and Benefits**
AQUACER 8500 is recommended for the formulation of aqueous mold release agents that are used in metal die casting. The product has shown a lower level of smoking due to the emulsification system. The mold is protected from damage and the surface quality of the finished moldings is excellent.

**Recommended Levels**
10-70 % 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**
AQUACER 8500 is preferably diluted with water, but may also be mixed directly with all components of the aqueous mold release agent.

## Care Products and Polishes

**Special Features and Benefits**
AQUACER 8500 is compatible with most commonly used polymer dispersions, resin solutions, plasticizers, film building agents and surfactants. The wax emulsion gives a strong anti-slip effect and is characterized by a good dirt-repellent effect. The above-mentioned properties are generated by mixing AQUACER 8500 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, abrasion resistance (scuff resistance) and the protection against heel marking (foot traffic resistance).

**Recommended Use**
AQUACER 8500 is used in self-shine emulsions and polishes for household, institutional and industrial applications.

**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 under agitation after mixing the polymers with the plasticizers and water, but before incorporating surface-active substances.



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