

## AQUACER 1540

### Wax Additive to Improve the Surface Properties of Aqueous Coating Formulations, Especially Can Coatings

Can coatings form a protective film on metallic substrates for food packaging. On the one hand, they prevent the corrosion of the metal, and on the other hand, they protect the food contained inside the can. Many foodstuffs sold in metallic packaging contain, for example, acids, fats or salts. These food components can corrode the metal, thereby causing metal compounds to be released into the foodstuff.

The processing of the metal is particularly challenging, as it will be formed after it has been coated. Therefore, an optimum balance between the flexibility and the hardness of the coating is essential. AQUACER 1540 is a wax emulsion based on carnauba wax, and has been specially developed for can coatings with low film thickness. The additive provides low COF values, an excellent scratch resistance, and has no negative effect on the gloss, even in the case of thin layers. AQUACER 1540 fulfills food contact legal status requirements, and can be used both for internal and external coatings.

#### Benefits



- Low COF values
- Improves the scratch resistance of the coating
- No influence on turbidity, haze or gloss
- Particularly suitable for low film thicknesses
- For internal and external coatings
- Food contact legal status

#### Technical Properties



- Non-volatile matter: 40 % (60 min., 125 °C)
- Carrier: Water
- Melting point (wax content): 85 °C
- Particle size: < 1 µm
- Viscosity (23 °C, D=800/s): < 50 mPa·s
- pH value: 9.5

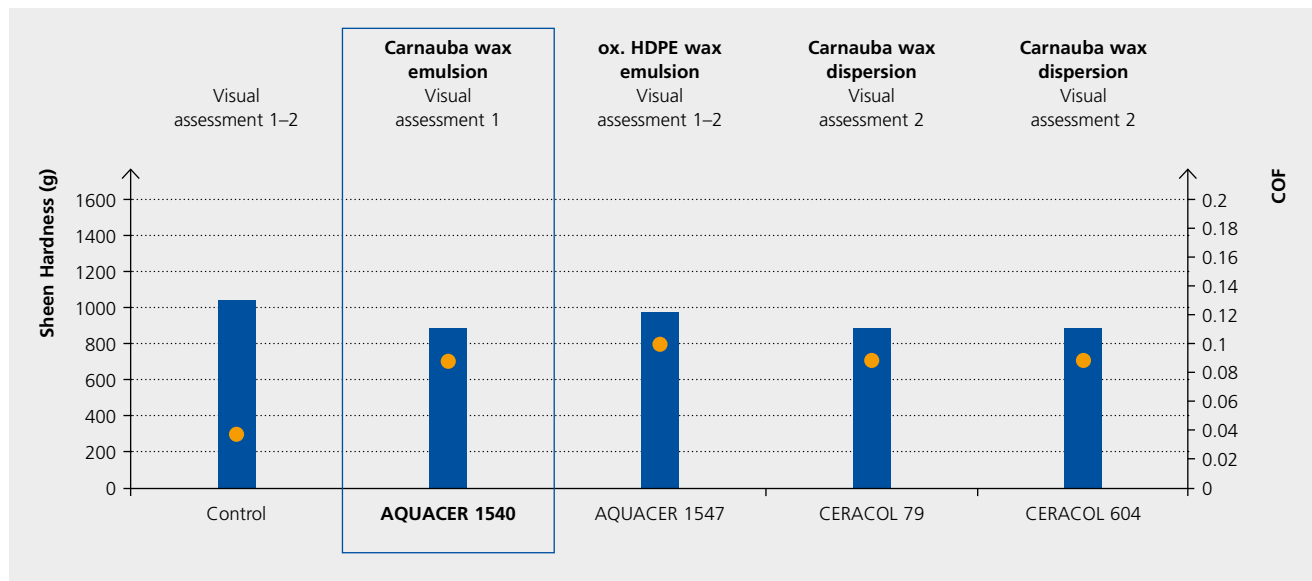
#### Applications



For aqueous can coatings and aqueous systems with a low proportion of co-solvent



## Comparison of AQUACER 1540 with Existing BYK Products in an Aqueous Epoxide/Phenolic Resin Can Coating with 8 % Co-solvent



■ COF    ■ Sheen Hardness (g)

Additive dosage: 0.5 % wax solid based on the total formulation

Visual assessment: 1 = very good, 5 = very poor

**AQUACER 1540: very low COF, high hardness and very good visual assessment**



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Additive Guide



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