• Swells in water without agitation or by manual or mechanical stirring
• pH: stable over a pH range of 4 to 10
• Alcohols: compatible up to 40% with ethanol
• Salts: swelling capacity decreases in presence of salts. A higher polymer concentration is required to reach the same viscosity compared to a salt-free medium.
• Urea: compatible
• Surfactants: compatible with anionics and nonionics but only up to 1% with cationic (higher polymer concentration is required)
• Untreated pigments: compatible with iron oxides and organic pigments
• Treated pigments: compatible with all DAITO’s treatments
• Lakes: incompatible
• Cellulobeads, Makibeads, Sugarcapsules: compatible
• Film formers: compatible with acrylic and cellulose derivatives

1% gels were prepared by different methods (swelling, by hand, with a mixer): Low shear achieves frosted aspect, high shear reduces frosted aspect with immediate ultimate volume.

Influence of shear on the gel formation: aspect and spreadability

0.5% gels were poured into a mould. The aspect was observed 5 minutes after demoulding:

Formulation

Gel formation

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