SAFE – STABLE – REPRINTABLE

TEGO® Wet 288

Siloxane-based, highly efficient wetting additive with superior hydrolytic stability, reprintability and food contact compliances

Substrate wetting additives and some common challenges

Good substrate wetting is of fundamental importance for printing and coating processes. When low energy substrates need to be printed or coated a strong reduction of surface tension is required. In waterborne and radiation-curing inks and coatings, this can be efficiently achieved by using siloxane-based surfactants.

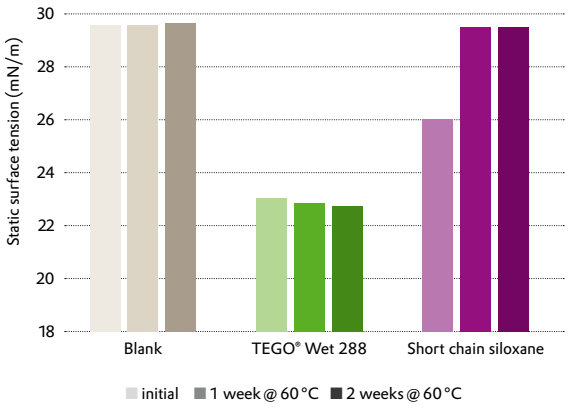
In waterborne inkjet inks for film, short chain siloxane-based surfactants are often used. They provide excellent surface tension reduction and wetting of various substrates. However, depending on the ink formulation and the pH-value, many existing products tend to lose effectiveness over time.

For radiation-curing inks or varnishes, longer chain siloxane-based surfactants are beneficial for powerful reduction of surface tension. But at the same time, they often reduce the surface energy of the cured inks or coatings, create some slip and interfere with reprintability and glueability.

Key Properties of TEGO® Wet 288

- Hydrophobic siloxane-based surfactant
- 100 % active, solvent-free
- Highly effective and low-foaming
- Highly suitable for waterborne inkjet inks as well as all kinds of radiation-curable inks and coatings

Outstanding surface tension reduction and long-term effectiveness in waterborne inkjet model formulation



Click or scan the QR-code for more information!

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Solving the challenges

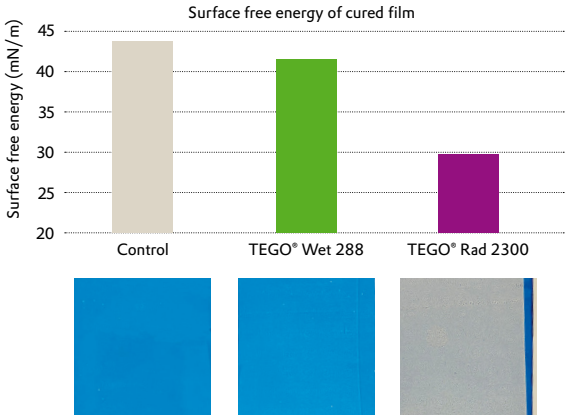
TEGO® Wet 288 has been developed to tackle these challenges. It has been designed as a unique hydrophobic siloxane-based surfactant with excellent hydrolytic stability.

It efficiently reduces surface tension in waterborne and radiation-curing inks and coatings, stays very stable in aqueous inkjet inks, and maintains high surface free energy of the final print or coating. Waterborne as well as radiation-cured formulations stay reprintable and glueable.

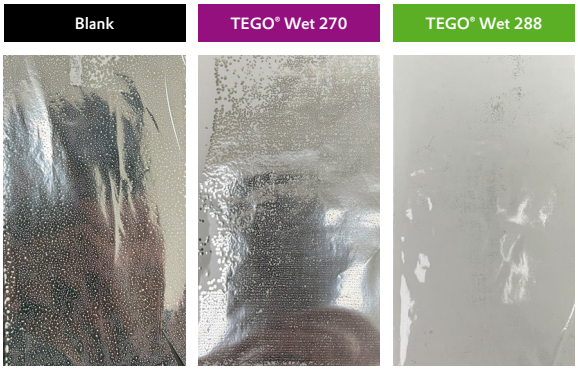
In the picture to the right, the higher surface energy and improved reprintability compared to a longer chain siloxane-based additive in a UV ink is clearly visible.

The excellent wetting properties of TEGO® Wet 288 can be seen on pictures below:

In spite of its strong surface tension reduction TEGO® Wet 288 maintains high surface energy, reprintability and glueability



White ink with 0.5 % of additive, cured and surface free energy measured. Reprinted by blue UV flexo ink



White UV ink applied by hand anilox to metallized BOPP

Key Benefits

- Superior effectiveness and long-term effect in waterborne inkjet inks
- Excellent substrate wetting while maintaining reprintability and glueability in radiation-curable inks and coatings.
- Broad food contact compliances

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More information and test results ...

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