DENSURF SM 101

SURFACE MODIFIER

DESCRIPTION

Densurf SM 101 is an organo-modified polysiloxane based surface modifier.
It's recommended for water-borne, solvent borne, and solvent-free systems
- Decreases the surface tension of paints and increases substrate wetting
- Enhances levelling and distinctness of image (DOI) of the paint film

HIGHLIGHTS

for performance & application

- Enhances levelling
- Substrate wetting
- Defect-free paint films
- Constructional paints

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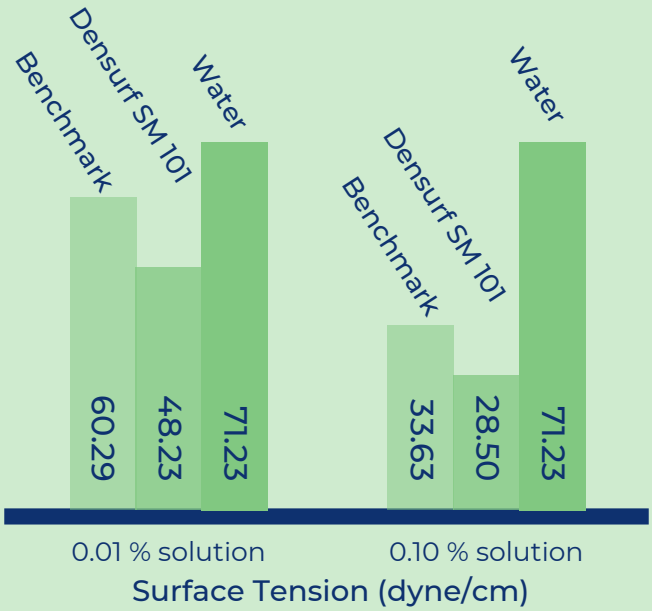
Performance Tests

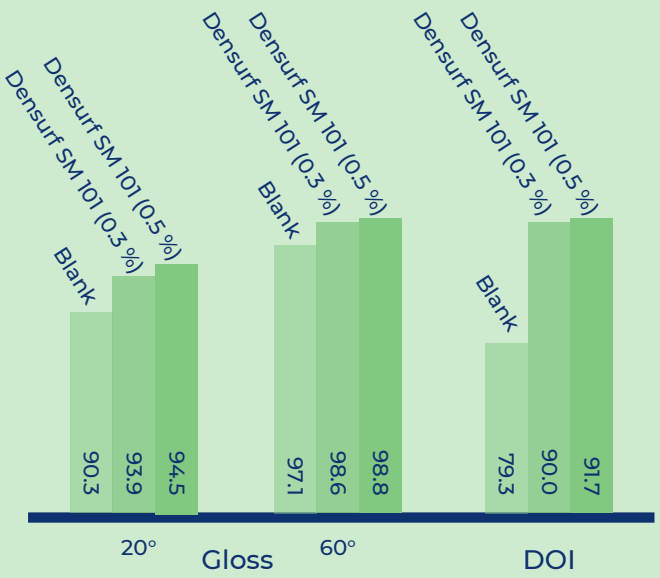
SM

Paint defects such as orange peel formation, poor levelling and adhesion, crater generally result from surface tension difference of the paint and the substrate. Surface modifiers are used to reduce surface tension of the paint, enhance its levelling, increase DOI and avoid the defects.

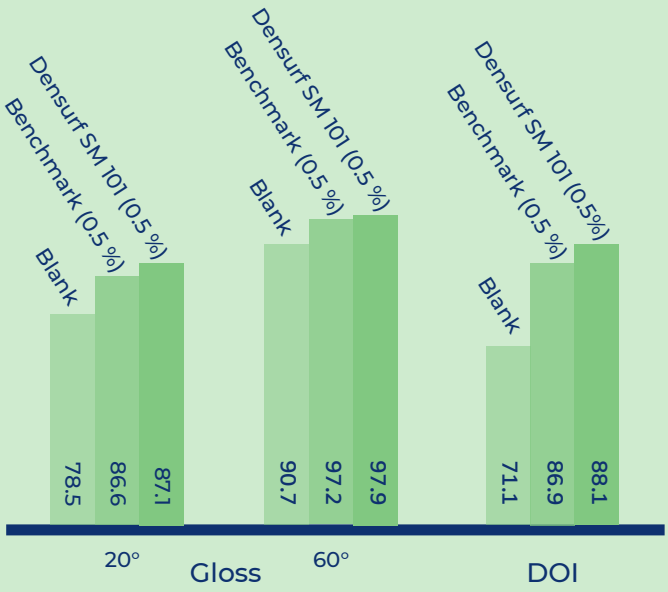
In this study, aqueus solutions of Densurf SM 101 and a well-known benchmark product were prepared and surface tension values were recorded by using optical contact angle measurement device. Results are given right-hand side.



In the second study, acrylic PU white topcoat was prepared and Densurf SM 101 was added to the paint with two different dosage levels at the let-down stage. Then the paint was applied to the lenata card by using a film apllicator (200 µ) and paint films were cured at 80°C during 30 min. Finally, gloss and DOI levels of the cured film were measured and compared with the blank. Results are given below.



In the third study, acrylic PU white topcoat was prepared, 0.5% Densurf SM 101 and the benchmark product was added to the paint with at the let-down stage. Then paint was applied to lenata card by using a film apllicator (200 µ) and paint films were cured at 80°C during 30 min. Finally, gloss and DOI levels of the cured film were measured and compared with the competitor. Results are given below.



REMARKS

- Strong surface tension reduction
- Increase DOI and gloss levels of PU topcoats
- Has no effect on slip