We will start soon...

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The **presentation** will be **shared** with all participants after the webinar.

Your **hosts** for this call

Foamaster® NO 2331 Foamaster® WO 2310

New defoamer solutions with global food contact compliance.



Peter Bene Presenter





Andrea Schamp/ Kerstin Schurig





Peter Bene

Technical Sales
Formulation Additives
EMEA region



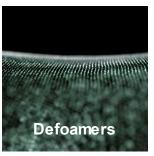
Agenda

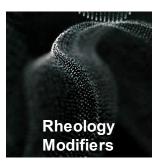
- 1. Introduction
- 2. Foamaster® WO 2310 performance highlights
- 3. Foamaster® NO 2331 performance highlights
- 4. Summary



Our comprehensive portfolio enables solutions for various industries









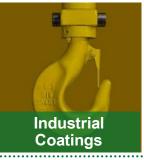






BASF is the premiere provider of **Performance & Formulation Additives** for the paints and coatings industry



















Strong brands to empower your business

Water-based brands	Application	Solvent-based* brands
Dispex [®] / Dispex [®] Ultra	DISPERSING AGENTS	Efka®
Foamaster® / FoamStar®	DEFOAMERS	Efka [®]
Rheovis [®] (organic) / Attagel [®] (clays)	RHEOLOGY MODIFIERS	Efka [®]
Hydropalat [®]	WETTING AGENTS	Efka [®]
Loxanol®	FILM-FORMING AGENTS	Efka [®]
Tinuvin [®] / Lignostab [®]	LIGHT STABILIZIERS	Tinuvin [®] / Chimassorb [®]
Irganox®	ANTIOXIDANTS	Irganox [®] / Irgafos [®] / Irgastab [®]
·		

*Efka® includes also High Solids and 100% Solid Systems





...a simple solution

Foamaster® WO 2310 and Foamaster® NO 2331 are suited for adhesives, emulsion polymerization and functional coatings offering extremely broad food contact compliance combined with global country registrations.



Foamaster® WO 2310

Defoamer based on pharmaceutical white oil with extremely broad food contact compliance compliance



Application:

Foamaster® WO 2310 is a defoamer based on white mineral oil, which is VOC-free and low SVOC. It provides excellent performance combined with improved long term persistency. The defoamer is suitable for all types of aqueous premium paints, adhesives and functional coatings as well as emulsion polymerization processes, where broad food contact compliance is required.

Sustainability highlights:

- VOC-free acc. to EU 2004/42 & US-EPA Method 24
- Low SVOC content
- Based on pharmaceutical white oil
- Designed to be used in paints with proenvironmental labeling (GS-11, Blue Angel, Ecolabel, German TÜV)

Performance highlights:

- Quick foam suppression
- Highly compatible
- Excellent long-term stability
- Limited influence on gloss
- Broad applicability
- In accordance with RAL UZ 113
- Excellent product stability

Characteristic Values:

Appearance	Whitish to yellowish opaque liquid
Density at 20°C	~ 0.88 g/cm ³
Viscosity	~ 1,250 mPa·s



Foamaster® NO 2331

Environmentally sound, natural oil-based alternative to mineral oil defoamers with extremely broad food contact compliance



Application:

Foamaster® NO 2331 is a natural-oil based, VOC-free and low SVOC defoamer, which provides excellent performance and minimizes haze and fogging often seen with mineral oil defoamers. It is suitable for all types of aqueous premium paints (high PVC, premium flat & eggshell, semi-gloss), adhesives and emulsion polymerization processes where broad food contact compliance is required.

Sustainability highlights:

- VOC-free ace. to EU 2004/42 & US-EPA Method 24
- Low SVOC content
- Based on renewable oils
- Designed to be used in paints with proenvironmental labeling (GS-11, Blue Angel, Ecolabel, German TÜV)

Performance highlights:

- Quick foam suppression
- Highly compatible
- Excellent long-term stability
- Low influence on gloss
- Broad applicability
- Low fogging
- Excellent product stability

Characteristic Values:

Appearance	Yellowish hazy liquid
Density at 20°C	~ 0.93 g/cm ³
Viscosity	~ 1,250 mPa·s



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- 2. Foamaster® WO 2310 performance highlights
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Foamaster® WO 2310 and NO 2331

Test methods

Test	Method
Defoaming density	Measurement of density via density cup after stirring the paint 3 min at 5000 rpm
Defoaming sponge roller test	Visual check of foam stability after drying of the film applied with a sponge roller (10-20g)
Long term stability	Sponge roller test after heat ageing of the paint for 2 weeks at 40°C
VOC content	EU 2004/42: b.p. > 250°C EPA 24: 60 min 110°C convection oven
SVOC content	GC/MS analysis after solvent extraction (Hexane/Acetone); evaluation of all substances in the retention area of C 16 to C 22



Foamaster® WO 2310 and NO 2331

Defoamer test methods

- Stirring test is a quick and effective method to evaluate liquid formulations.
- Complete formulation is stirred with a dissolver (e.g. 3min at 5000 rpm).
- Density of the resulting foamy mixture is being measured. The higher the density the less foam is in the formulation.

Important: Repeat test after storage (e.g. 2 weeks at 50°C)!



Source: BASF Formulation Additives Defoamer Video

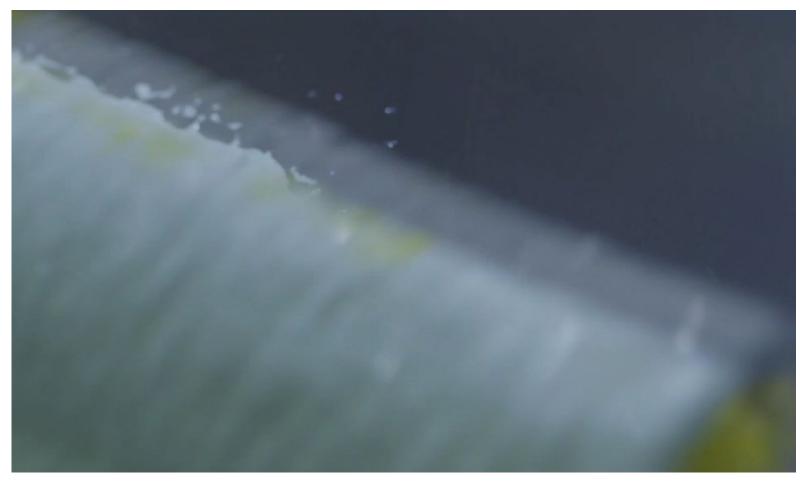


Foamaster® WO 2310 and NO 2331

Defoamer test methods

- Application tests try to simulate the (paint) application: e.g. sponge roller test, spray application or simple draw down
- Check for remaining foam bubbles, craters, fisheyes, orange peel, turbidity and gloss

Important: defoamers tend to lose activity in the final formulation after storage. Repeat test after storage (eg. 2 weeks at 40°C)!



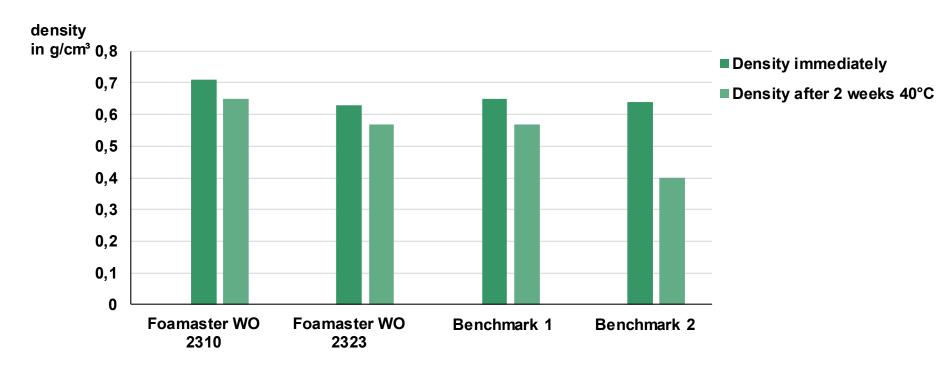
Source: BASF Formulation Additives Defoamer Video



Foamaster® WO 2310 — Architectural paints

Performance tests in Acronal[®] S 790

Defoamer efficiency of various defoamers vs. Foamaster®WO 2310 in Acronal® S 790



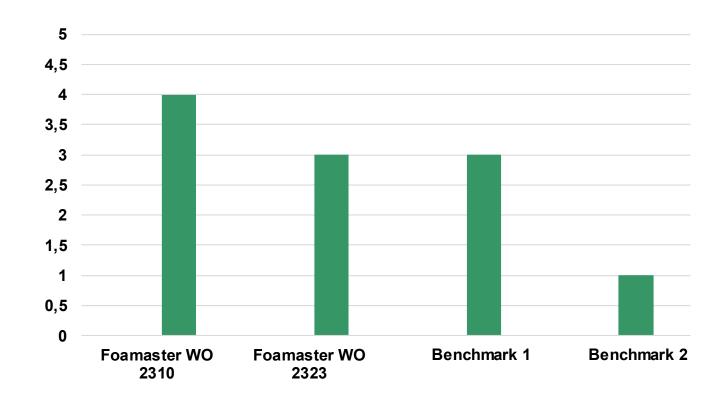


Foamaster® WO 2310 — Architectural paints

Performance tests in Acronal[®] S 790

Sponge roller test in Acronal® S 790

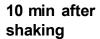
Rating: 5 no foam 1 lots of foam

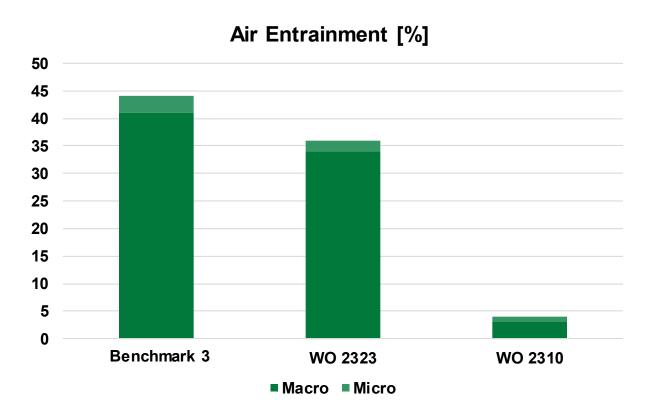




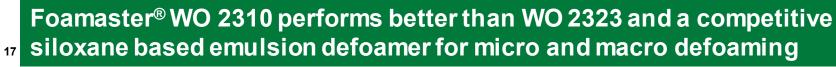
Foamaster® WO 2310 – Adhesives

Comparison in an acrylic copolymer (vinyl acetate- modified)





Defoamer addition 0,15%

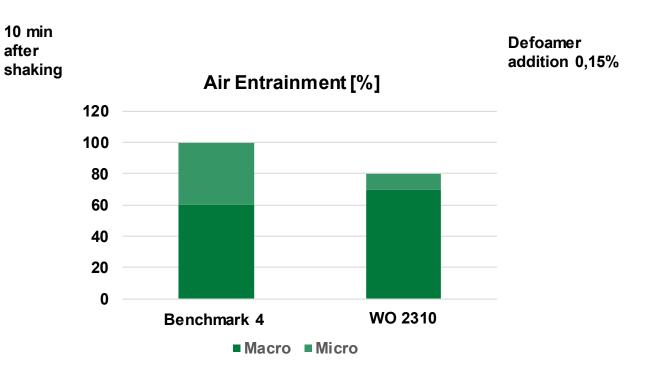




Foamaster® WO 2310 – Adhesives

Comparison in an acrylic copolymer- acrylic/methacrylic/styrene

Defoaming results in the presence of a sulfosuccinate wetting agent



Defect free coating on OPP at 12 µm film thickness in combination with Hydropalat[®] WE 3475







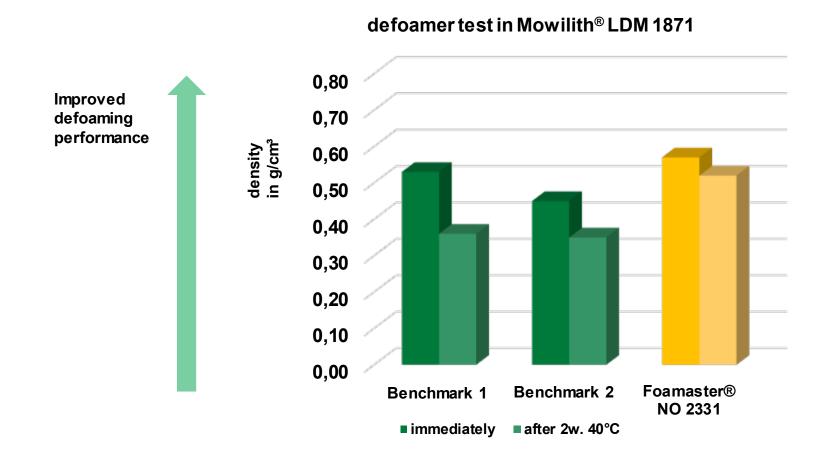
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Foamaster® NO 2331 — Architectural paints

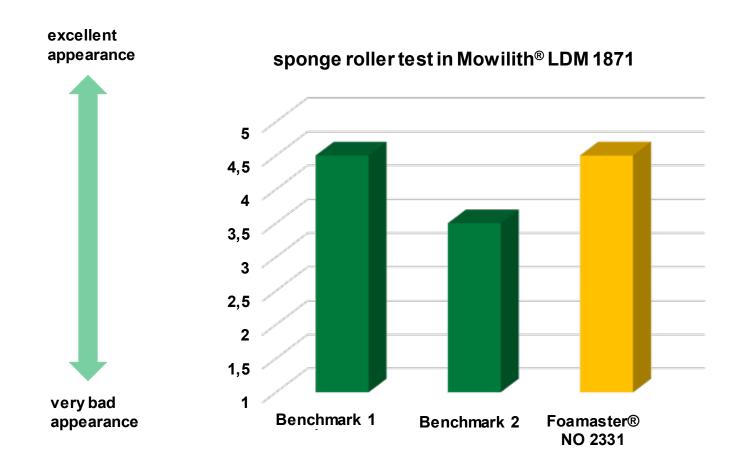
Performance tests in Mowilith® LDM 1871

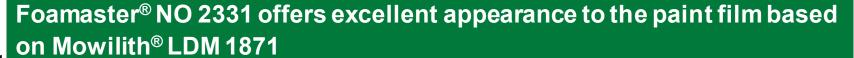






Foamaster® NO 2331 — Architectural paints Performance tests in Mowilith® LDM 1871

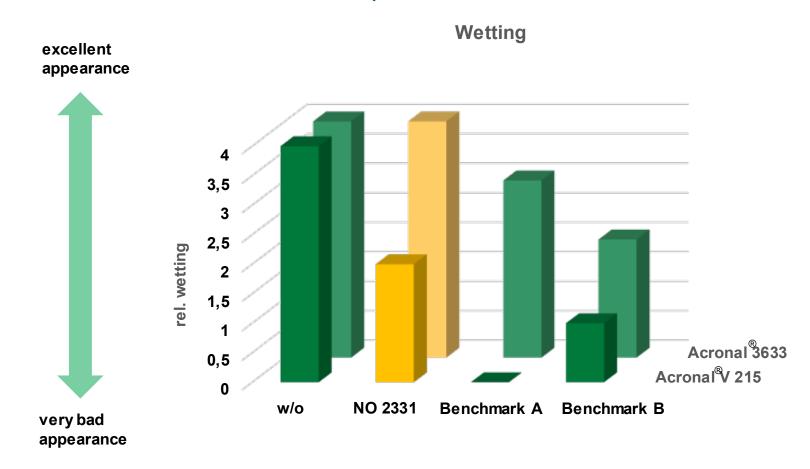






Foamaster® NO 2331 — Adhesives

Performance tests in Acronal® PSA for tapes and labels

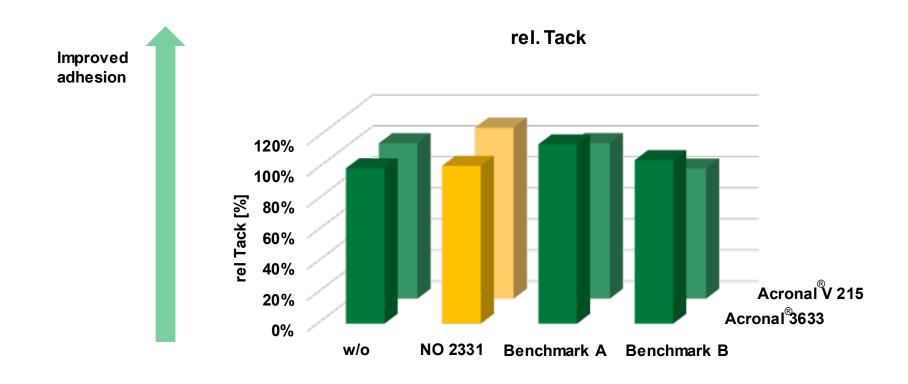






Foamaster® NO 2331 - Adhesives

Performance tests in Acronal® PSA for tapes and labels





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Summary

Foamaster® WO 2310 and Foamaster® NO 2331

- Broadest food contact compliance
- High efficiency combined with excellent long term persistency
- Very low VOC and SVOC values
- Broad compatibility with a wide range of resins/dispersions
- Well suited for adhesives, emulsion polymerization but also for inks and coatings applications where broad food contact compliance is essential
- Foamaster® WO 2310 conforms with Norm RAL UZ 113
- Foamaster® NO 2331 shows a high renewable content



Contacts



Dr. Sascha Oestreich

Head of Technical Sales Formulation Additives

Phone: + 49 211 7940-9028 Mobile: +49 173 5396101 sascha.oestreich@basf.com



Peter Bene

Technical Sales Formulation Additives

Phone: +49 211 7940-5927 Mobile: +49 173 5117438 peter.bene@basf.com



Andrea Schamp

Marketing Formulation Additives Europe

Phone: +49 211 7940-2605 Mobile: +49 173 5936561 andrea.schamp@basf.com

internet: http://www.basf.com/additives

email: formulation-additives-europe@basf.com



We create chemistry

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