Creating Additive Value

RHEOLOGY MODIFIERS

Non-ionic Polyurethane

- Associative thickener
- *Medium pseudoplastic rheology profile*
- Less influenced by surfactants

TAFIGEL® PUR 40

(in butytriglycol/water)

- 40% active content
- Low VOC

TAFIGEL® PUR 48

(in butytriglycol/water)

- 40% active content
- APE-,organo tin free

Applications

- *Industrial Coatings*
- *Paints (interior, exterior, latex, anti-corrosive)*
- *Emulsion plasters*
- *Adhesives*
- *Joint Fillers*

Advantages

- *Good flow, leveling and gloss*
- *Good spatter resistance*
- *Good atomization for spray application*
- *Ease of brush application*
- *Very good color acceptance on tinting*
- *Can be used over a wide range of pH*

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RHEOLOGY MODIFIERS

Non-ionic Polyurethane

- Associative thickener
- *Newtonian rheology profile*

TAFIGEL® PUR 45

(in butytriglycol/water)

- 40% active content
- APE-free

TAFIGEL® PUR 85

(in water)

- 25% active content
- APE, VOC and organo-tin free

Applications

- *Paints (interior, exterior, latex, anti-corrosive)*
- *Printing Inks*
- *Adhesives*
- *Joint Fillers / Putties*

Advantages

- *Excellent brush drag*
- *Excellent flow, leveling and gloss*
- *Good spatter resistance*
- *Excellent color acceptance on tinting*
- *Can be used over a wide range of pH*

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RHEOLOGY MODIFIERS

Non-ionic Polyurethane

- Associative thickener
- *Strong pseudoplastic rheology profile*

TAFIGEL® PUR 61

(in water)

- 25% active content
- APE, VOC and organo-tin free

TAFIGEL® PUR 65

(in butyltriglycol/water)

- 20% active content
- APE, VOC and organo-tin free

Applications

- *Industrial Coatings*
- *Paints (interior, exterior, latex, anti-corrosive)*
- *Emulsion plasters*
- *Adhesives*
- *Joint Fillers / Putties*

Advantages

- *High Sag Resistance*
- *Anti-settling*
- *Excellent atomization for spray application*
- *Good flow, leveling and gloss*
- *Can be used over a wide pH range*

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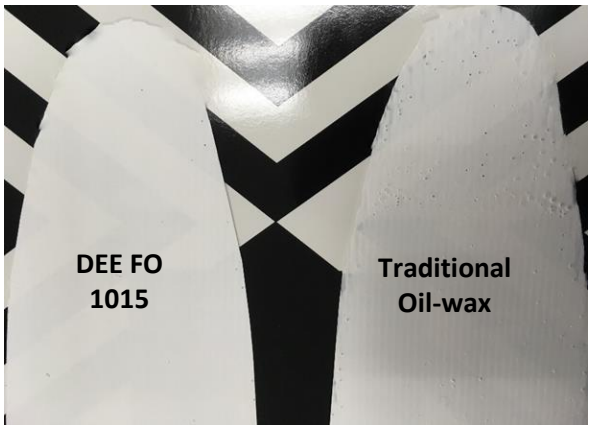
Hybrid defoamer technology for roof coatings systems
DEE FO® 1015

- Integrates multiple technologies to provide effectiveness and persistence
- Excellent foam control during manufacturing and drum filling process
- Fast air release upon application
- Highly effective in elastomeric and high viscosity systems
- Better performance at low loading vs. standard oil based defoamers
- Improved foam control in low VOC paints vs. standard oil based defoamer

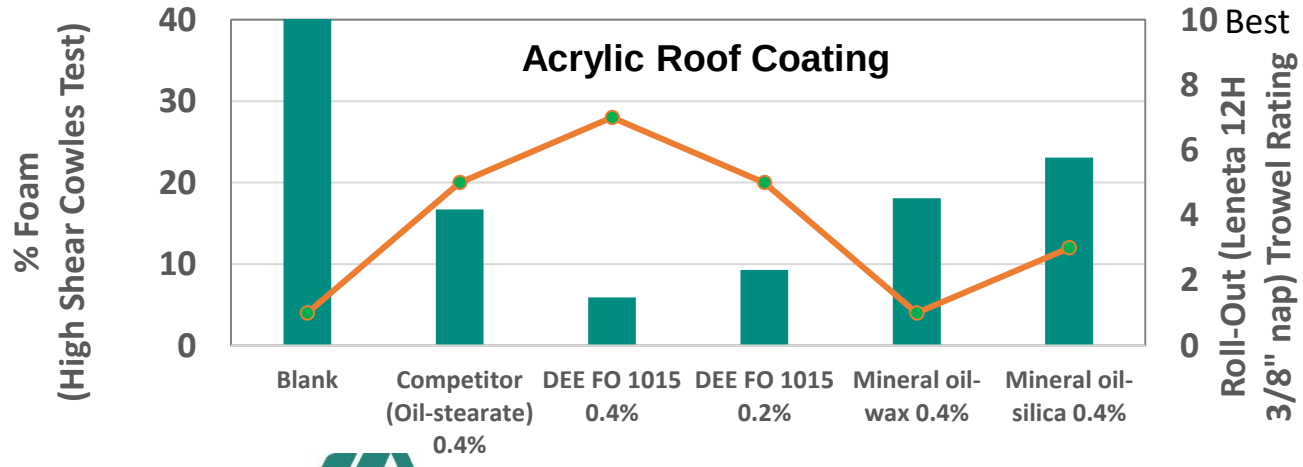
Regulatory clearances: Complies with 175.105, 176.170, 176.180, 176.200, 176.210 with no Prop 65 warning and cleared for all countries.



8 mil Draw down on Leneta
DEE FO 1015: Better air release in Roof Coating

Applications

- Elastomeric Roof Coatings
- Architectural / Deco
- Industrial Coatings
- Building Products



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High molecular weight copolymer dispersant, highly effective for heavy filled elastomeric roof coatings

EDAPLAN® 494

- Titanium dioxide
- Fillers – Clay, Kaolin, Silica, Calcium Carbonate

Anionic; 50% active content

Low VOC

Advantages

- Universal use for organic and inorganic pigments
- Maintains water resistance, film hardness, and scrub resistance
- Good pigment stabilization by steric and electrostatic mechanisms
- High color strength development
- No surfactant leaching
- No foam formation
- Reduction of grind viscosity
- High pigment concentration with low dosage level
- Broad compatibility with various binders

METOLAT P 8900 Series: Powdered Superplasticizers for Construction

METOLAT P 8910

- *Broadly useful*
- *Workhorse product*

METOLAT P 8920

- *Universal*
- *1st choice – high C_3A, sulphate and alkali content cements*
- *Low caking tendency at high temperatures*

METOLAT P 8930

- *Broadly useful*
- *1st choice – ternary binder and α-hemihydrate*
- *Low caking tendency at high temperatures*

Performance Features	METOLAT P		
	8910	8920	8930
High initial flow	ü	ü	ü
Long flow retention (open time)	ü	ü	
Low sulfate sensitivity	ü	ü	ü
Compatibility with retarders (fruit acids)	ü	ü	ü
Fast dispersing effect (short mixing)	ü	ü	ü
Low set-retardation	ü	ü	ü
High early strength development		ü	ü
Low early shrinkage		ü	ü
Low caking tendency at high temperatures		ü	ü

Creating Additive Value

METOLAT P 8900 Series: Powdered Superplasticizers for Construction

- High performance superplasticizers
- High range water reducing additives
- Pure polycarboxylate ethers (PCE)
- Free-flowing, off-white powder
- Free of formaldehyde
- Free of ammonia
- No additional defoamer present
- High value in use

System	Typical Applications	Binder Type	METOLAT P		
			8910	8920	8930
Cementitious mortars	Self-compacting concrete, industrial floors	OPC / CEM I, R (rapid)	●	●●	
		OPC / CEM I, N (normal)	●	●●	●
		Blended cements / CEM II, slag	●●	●●	
		Blended cements / CEM II, limestone	●	●●	●●
	SLUs, grouts	Ternary binder system, any pH	●●	●●	●●
Calcium sulfate / gypsum based mortars	Self-levelling screed	Thermal anhydrite (FGD)		●●	●
		Anhydrite, synthetic and natural	●	●●	●
	Self-levelling screeds/ underlayments, plasters	Alpha-hemihydrate, any pH	●●	●●	●●
		Beta-hemihydrate, FGD and natural	●●	●●	●

● = Recommended ●● = Highly recommended

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HIGH PERFORMANCE WETTING AGENTS

for indirect food contact applications

METOLAT® 775 and 780

- Provide significant reduction in Equilibrium and dynamic surface tension
- HLB value of 9
- Enhanced substrate wetting & film quality
- Low to no foaming tendency
- Non-ionic
- Cost effective
- APEO free wetting agents for a wide range of *indirect food contact* coating and ink applications.

White Ink Example

(a) Contains defoamer

(b) Contains defoamer + 0.5% METOLAT 780

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METOLAT® 775 and 780 can be used in the following indirect food contact applications, subject to the limitations noted below.

21 CFR 176.170 The product can be used as a component of the uncoated or coated food-contact surface of paper and paperboard in compliance with 176.170.

21 CFR 176.180 The product can be used as a component of the uncoated or coated food-contact surface of paper and paperboard in compliance with 176.180.

CALIFORNIA PROPOSITION 65
This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects, at levels which would require a warning under the statute.

Compliant with:

NESTLÉ STANDARDS ON MATERIALS IN CONTACT WITH FOOD (GI-80.008)

SWISS ORDINANCE ON MATERIALS AND ARTICLES IN CONTACT WITH FOOD (SR 817.023.21)

The quantity of any wetting agent employed in the production of the specific food contact article shall not exceed the amount reasonably required to accomplish the intended effect in the article and shall not be intended to accomplish any effect in food.

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CERETAN® MX 2919

APPLICATION

WOOD COATINGS
PRINTING INKS
OPV-CLEARS

- MÜNZING's unique spraying technology generates spherical particles
- D_{99} quality warranty
- High efficiency due to narrow particle size distribution
- Proprietary blend of micronized wax

PRODUCT HANDLING

- Easy to disperse due to spherical shape
- Less clumping & dusting compared to conventionally milled waxes

PROPERTIES

- Matting agent with clarity
- Improved slip and anti blocking
- Improved sandability
- Improved scratch resistance
- Haptic effect (soft-feel)

ADVANTAGES

- Guaranteed maximum particle size and constant and narrow particle size distribution
- Easy to incorporate

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Also available in Aqueous Dispersion Form - LUBA-print 914/A

Münzing North America 1455 Broad St. Bloomfield NJ
Phone 973-279-1306 E-Mail info@munzing.us

Visit our website for more information...
for international representatives...
www.munzing.com

Creating Additive Value

LUBA-print® 280 AG

APPLICATION

ANTI-GRAFFITI

ADVANTAGES

- Guaranteed maximum particle size and constant and narrow particle size distribution
- Easy to incorporate

PRODUCT HANDLING

- Easy to disperse
- Excellent stability due to nano scaled particle size distribution (no settling)

PROPERTIES

- Water repellent impregnation

Functional blend dispersed in water, anionic

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