



# 'Green' Defoamer for Water-based Systems

AGITAN® 352

Combination of Vegetable Oil, Alkoxylated Compounds,
Silica and Emulsifiers (100% actives)

#### **APPLICATIONS**

- Architectural Coatings
- Paper Coatings
- > Industrial & Wood Coatings
- Overprint Varnish (OPV)
- Adhesives
- Polymerization

### **FEATURES**

- Mineral oil- and silicone-free with 50% bio-based content
- High efficiency
- Excellent stability
- Suitable over a broad pH range (between 3 and 11)
- Broad FDA and BfR regulatory clearances





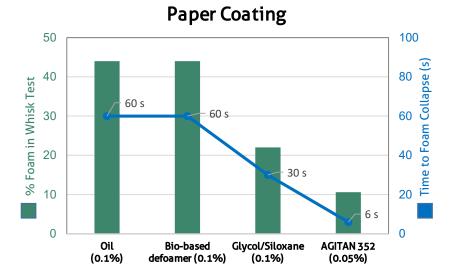




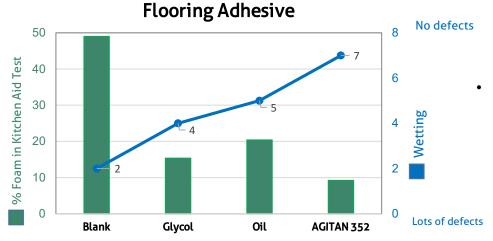
### **Architectural Coating**

High Gloss Acrylic Trim	24-Hr Stability	% Foam	Roller Application 10 = no foam
Blank	homogeneous	28	1
Competitor	homogeneous	14	7
Oil based	slight oil drops	16	4
Glycol based	homogeneous	10	4
AGITAN 352	homogeneous	5	8

- Improved process foam control over typical defoamers
- · Fast foam break during application
- No gloss reduction, good leveling and no surface defects
- Suitable for grind and let-down



- Excellent foam control in low to high shear application
- Fast foam break prevents build up of foam
- Minimal wetting defects



Minimal wetting defects vs. other defoamers while maintaining good foam control









### **Polymeric Dispersants for Aqueous Systems**

EDAPLAN® 490, 492, 494

#### **FEATURES**

- Universal use for organic, inorganic, carbon black pigments and fillers
- High gloss and color strength development
- Excellent pigment stabilization with no flocculation or rub-out issues
- No negative influence on water resistance or film hardness and no foam
- Reduction of grind viscosity to allow high pigment concentration
- Broad compatibility with various binders

	EDAPLAN® 490	EDAPLAN® 492	EDAPLAN® 494			
Copolymer structure		nolecular weight, ched	Anionic, high molecular weight, branched			
Active content	40% in water	35% in water	50% in water			
pH	7.5	8.5	8.5			
Viscosity, mPa.s	1000	200	250			
VOC (EPA, Method 24)	0	0	< 1%			
Suitable Pigments	<ul> <li>Organic</li> <li>Carbon black</li> <li>Inorganic</li> <li>TiO<sub>2</sub></li> </ul>	<ul> <li>Carbon black</li> <li>Organic</li> <li>Silica / matting</li> <li>TiO<sub>2</sub></li> </ul>	<ul> <li>Inorganic</li> <li>TiO<sub>2</sub></li> <li>Organic</li> <li>Carbon black</li> <li>Transparent/ nanoscale</li> <li>Alternate to grind resins</li> </ul>			





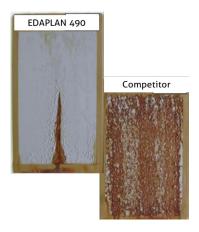
#### **Exterior Paint**

Dispersant @ 0.44%	Ease of pigment Incorporation	Viscosit	y in Krebs l 25°C	Water Sensitivity Test		
		Initial	1 week	4 weeks		
Competitor	Moderate	75.4	78.2	85.5	Yellowing, tacky	
Polyacrylate	Difficult	72.1	Thick	Thick	Not tested	
EDAPLAN® 494	Easy	81	83.6	84.2	Good	

Excellent long-term stability in all types of coatings (architectural, roof, industrial, etc.)

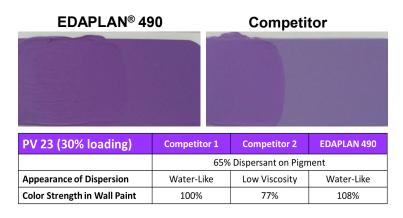
Improved water resistance

#### **White Anti-corrosion Primer**

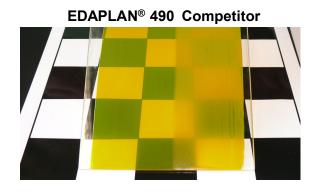


Improved corrosion resistance in salt spray test

### **Organic Pigments**

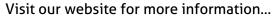


Increase in color strength and better stability using EDAPLAN® 490



Improved transparency and homogeneity in PY-83 dispersion in a printing ink















### **Universal Dispersing and Wetting Agent**

### **EDAPLAN® 918**

High molecular weight copolymer with pigment affinic groups

#### **FEATURES**

- Designed to disperse organic, inorganic and carbon black pigments
- For universal use in water- and solvent-based systems as well as high solids
- Excellent stabilization with improved resistance to flocculation
- High gloss and color strength
- Good pigment wetting properties (no additional wetting agent required)
- Solvent-free with 100% active

Suitable Applications	Water based	Solvent based	Universal use	100% UV	High- solid	U	Inorganic Pigments	
EDAPLAN® 490	••					••	••	••
EDAPLAN® 494	••					••	••	••
EDAPLAN® 918	•	••	••	••	••	••	•	••

Primary recommendation

Secondary recommendation





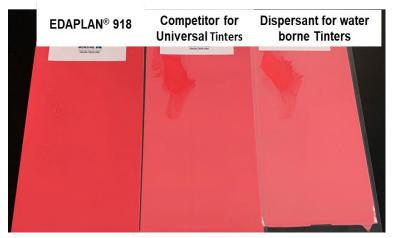


	Test	PB 15:1	PG 7	PR 122	PR 254	PO 36	PO 73	PY 155	PV 23	PBk 7
Water-based	Color strength	•		•	•	•	•	•	•	•
	Rub-out	•	•	•	•	•	•	•	•	•
-based	Color strength	•		•	•	•	•	•	•	•
Solvent-based	Rub-out	•	•	•	•	•	•	•	•	•

- High color strength and stabilization (rub-outs) achieved in water- and solvent-based formulations made from *various universal pigment concentrates* using EDAPLAN 918
- Primary recommendation was EDAPLAN 397



Aluminum pigment, organic pigments in combination with C-black in water borne metallic automotive coating. Excellent stabilization achieved using EDAPLAN 918 and LUBA-print 725.



Improved resistance to flocculation in PR 254 in solvent-based alkyd.











### Additive for Graffiti Resistance and an Easy-to-Clean Surface

### **METOLAT® ETC 1**

Siloxane modified acrylate (Hydroxyl functional, 32% actives in MPA)

### APPLICATIONS (Solvent-based Coatings)

- Topcoats, clear lacquers
- Industrial coatings
- Wood varnish

#### **FEATURES**

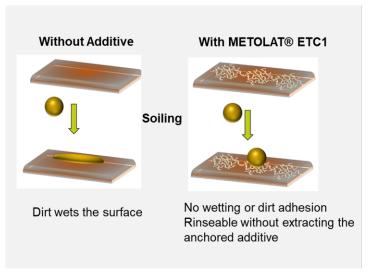
- Improves water, oil and contaminant resistance
- Anti-graffiti properties demonstrated through strong marker resistance and reduced spray paint adhesion
- Provides easy to clean surface
- In suitable 2K systems (e.g., acrylate/isocyanate), it can crosslink and remain permanently anchored to the surface for durability
- Enhanced slip and tape release
- No turbidity in clear coats



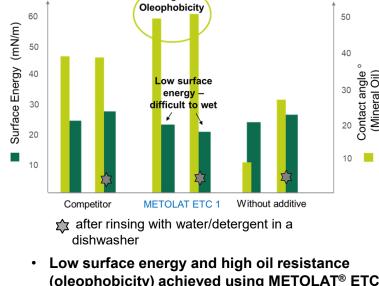






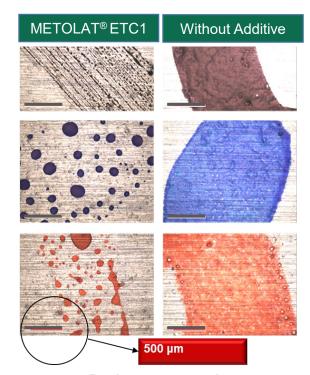


- **METOLAT® ETC 1 significantly lowers the** surface energy of the coating.
- This prevents contaminants from wetting or adhering to the surface.

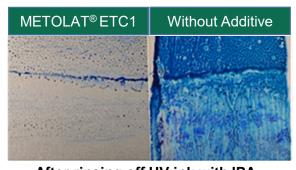


High

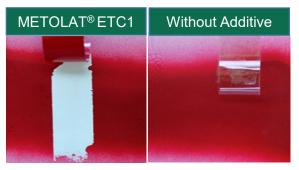
- (oleophobicity) achieved using METOLAT® ETC 1.
- After several cleaning cycles, properties are preserved (no drop in values before and after).



Resistance to marker



After rinsing off UV ink with IPA



Resistance to spray paint and 'easy to remove' with tape





