Pat-Add AF 32

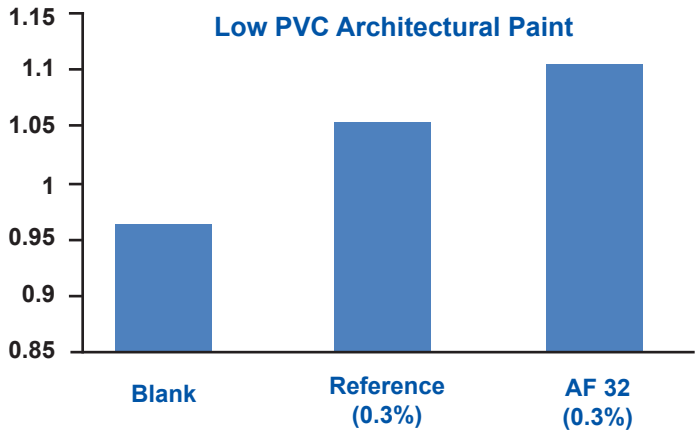
VOC free Polysiloxane Defoamer for WB Systems

PATCHAM

Pat-Add AF 32 is a VOC free polyether modified polysiloxane based defoamer for waterborne systems. Pat-Add AF 32 is highly recommended for architectural, water borne industrial, automotive OEM, inks and colorants.

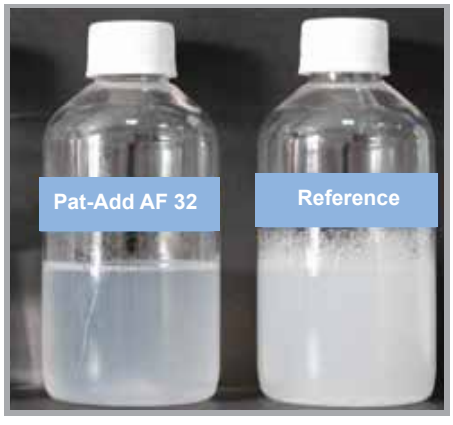
Features of Pat-Add AF 32

- 100% active, strong defoaming action
- Clear liquid with excellent shelf stability
- Minimizes presence of resting foam and micro foams
- No adverse affect on final film long term properties



Low PVC Architectural Paint densities chart with Blank, Refrences and Pat-Add AF 32

Defoaming efficiency of Defoamers in 1% surfactants solution with the dosage of 0.3%



- Shear resistant, can be used in high shear conditions
- Maintain clear film appearance

Dosage:
0.05 - 0.4 % for Mill base and up to 1 % may be required for pigment dispersions, dosages.
Addition:
Part of dosage prior to pigment grinding and remaining part to mill base before the letdown step of paint manufacturing

Pat-Add AF 34

Polysiloxane modified Defoamer for WB systems

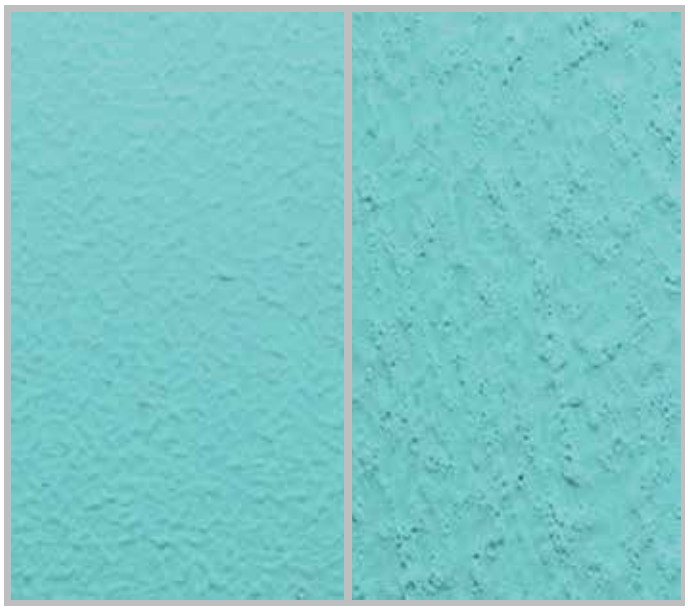
PATCHAM

Pat-Add AF 34 is an oil and VOC-free modified polysiloxane hydrophobic polymeric defoamer and deaerator.

Features of Pat-Add AF 34

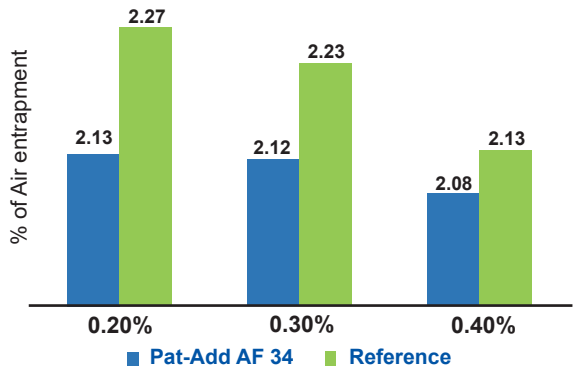
- Provides high spreading characteristics and highly effective in lowering surface tension to destroy the foam lamella
- The functional groups concentrate at the liquid/air interface to prevent stabilization of bubble by surfactants
- The partially insoluble active deaerating molecule promotes diffusion of air from the foam bubble into the surrounding, thus totally eliminates microfoams
- Suitable for all methods of application like brushing, roller or air assisted or airless application
- No adverse affect on final film's long term properties

Styrene Acrylic Gloss Paint
0.4% Dosage



Pat-Add AF 34 **Reference**

Styrene acrylic emulsion gloss paint



- Architectural emulsion paint, Waterborne Industrial paints, Waterborne Wood coatings
- Addition Stage: Millbase
- Recommended Dosage:
  0.2-0.6 % by weight on total formulation

Pat-Add AF 35

Universal polysiloxane based defoamer

PATCHAM

Pat-Add AF 35 organically modified polysiloxane defoamer for aqueous and solventfree formulations.

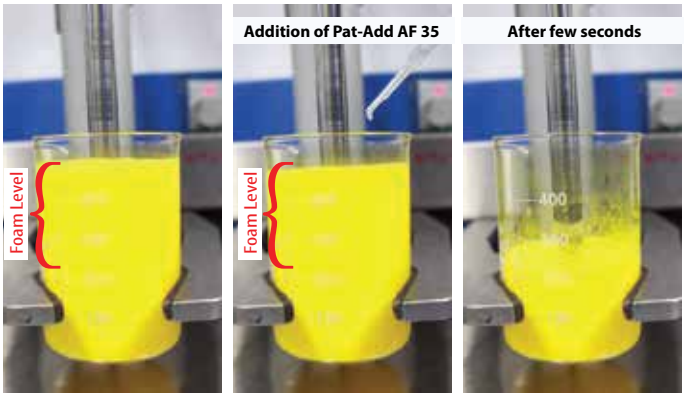
Features of Pat-Add AF 35

- Effective at low dosages
- Can be combined with other chemistry defoamers
- Eliminates microfoaming
- Excellent for high shear manufacturing process as well as low shear situations
- Outstanding deaeration in aqueous paints
- Independent of pH

Epoxy Solventfree Floor Coatings

Pat-Add AF 35 **Reference**

Defoaming Efficiency of Pat-Add AF 35 in WB Pigment Dispersion



Foam that occupies most of the volume collapse as addition of Pat-Add AF 35 in WB Pigment concentrate

Microfoams in Pigmented Polyaspartic Coatings

Pat-Add AF 35 **Reference**

- Recommended for solventfree floor coatings, Aqueous pigment dispersions
- Stage of Addition: Millbase
- Dosage: 0.1-0.8% total formulation

Pat-Add AF 70

Defoamer - Solventborne & Solventfree system

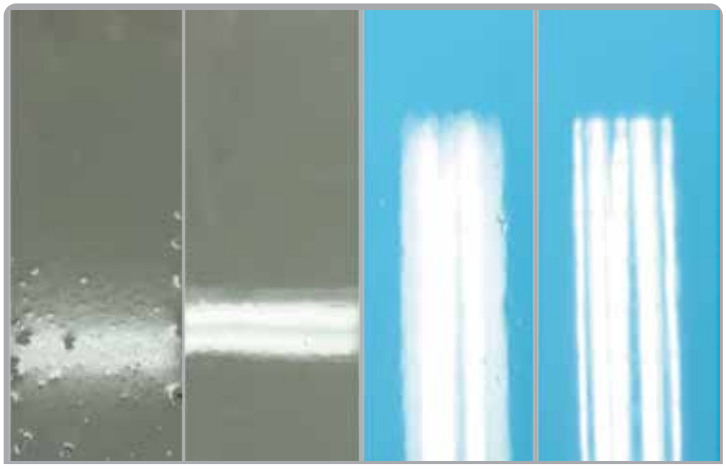
PATCHAM

Pat-Add AF 70 a polysiloxane and organic polymer defoamer and air release agent for solvent-borne and solvent-free systems during production and application

Features of Pat-Add AF 70

- Low risk of gloss reduction, haze, craters and cissing
- Strong defoaming and air releasing

Reference Pat-Add AF 70



Reference Pat-Add AF 70 Reference Pat-Add AF 70

6-7 mm thickness

7-8 mm thickness

- **Protective and Maintenance Coating**
  Epoxy Intermediate, Acrylic Polyol, Polyester polyol, polyaspartic Solvent free polyether polyol, thermoplastic Acrylate
- **Solvent Free Floor Coating**
  Solvent free Epoxy & PU system
- **Solvent Free Colorants**
  Epoxy Colorant
  Castor oil base colorant for Floor Coating
- **Dosage**: 0.5-1 % on total formulation

Can be used in the grinding stage as well as post addition stage

Pat-Add AF 72

Deaerating and Defoaming Additive

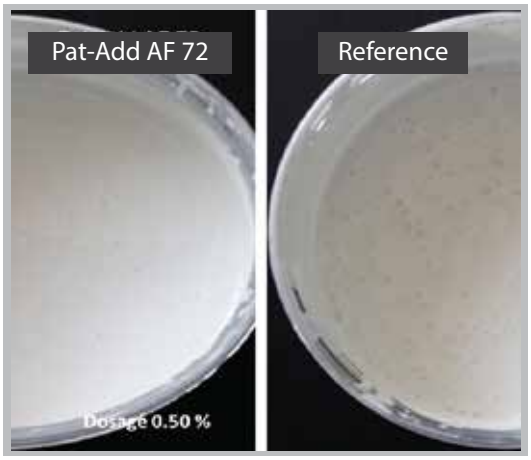
PATCHAM

Pat-Add AF 72 is a polysiloxane based defoamer for solvent-borne coatings. Highly recommended for the prevention of formation of foam during production, filling and application.

Features of Pat-Add AF 72

- Effective defoaming and deaeration
- Enables a bubble-free paint mixture without adverse effect on application
- Excellent performances in application of systems with high risk for air inclusion, such as roller, airless and conventional spray application
- Rapid defoaming action especially for fast cure systems

In-can appearance of Solvent base TPA white



Pouring test of solvent base TPA white on PVC Sheet

Spray Application of 2KPU Clear on Wood Panels

- Stage of addition: Mill base and Letdown
- Dosage: 0.10-0.80% on the total formulation
- Compatible in various solvent-borne resin systems and solvents
- i.e. 2-pack PUR, Long oil/Medium oil/ Short oil alkyd, TPA, Epoxy, Polyester, stoving enamels