

# Pat-Add DA 817

## Wetting and Dispersing Agent

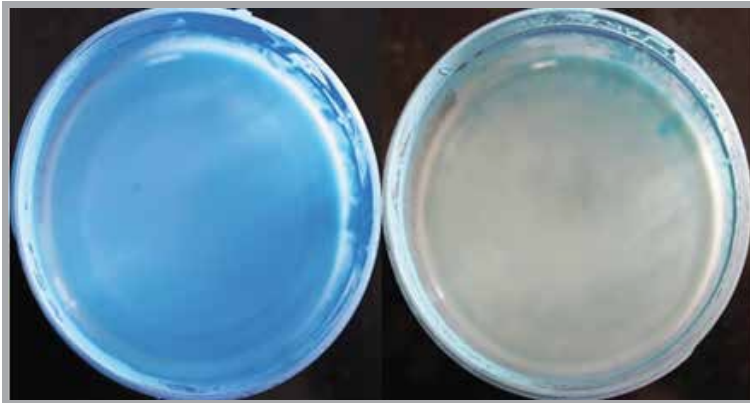


PATCHAM

**Pat-Add DA 817** is a wetting, dispersing and anti-sedimentation additive recommended for industrial paints. The strong “electrostatic” repulsion created by the adsorbed charged polymeric dispersant chains onto pigment surfaces supports maximum stability at lowest degree of flocculation. Pat-Add DA 817 works in both waterborne and solvent borne systems.

### Features of Pat-Add DA 817

- Effective dispersant for acidic pigments, including silica and carbon black
- Enables high pigment loading
- 100% active VOC free

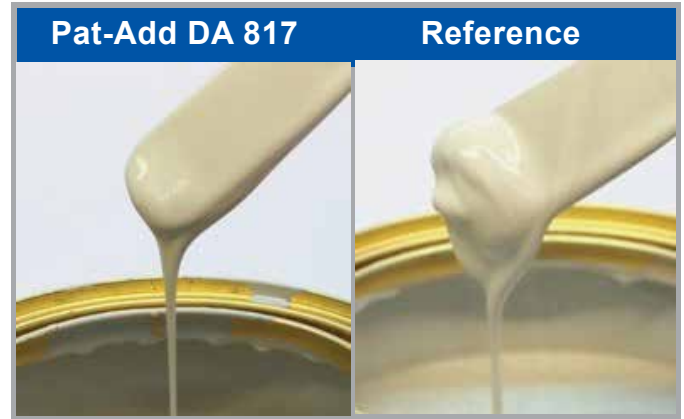


Pat-Add DA 817

Reference

### Pigment blue 15:3 and TiO<sub>2</sub> Co-grinding

- Can work in both WB and SB systems
- Stage of Addition: Mill base
- Additive dosage as supplied on pigment: Inorganic pigments: 5-10%  
Titanium dioxides: 1.5-3%  
Fillers: 1-1.5%



Pat-Add DA 817

Reference

**WB Epoxy concrete coating:  
35% extender loading**

- Increase long term stability of highly pigmented systems

**1% Color Development in  
SB Epoxy system (Direct grinding)**



# Pat-Add DA 895

## Electroneutral wetting and dispersing agent for pigment dispersion



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**Pat-Add DA 895** is a high polarity polymeric electroneutral wetting and dispersing additive for preparing pigment dispersion in unsaturated polyesters for composites and gelcoats.

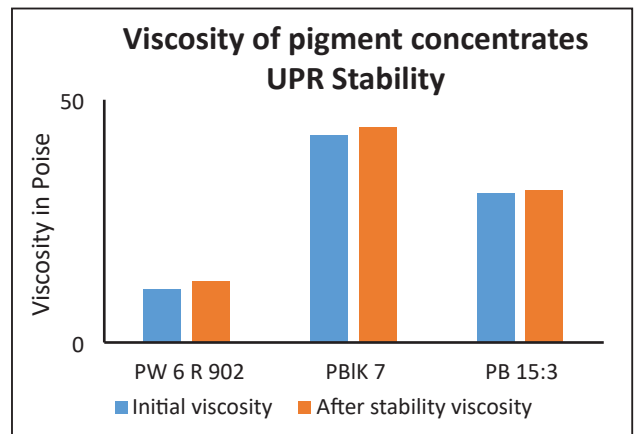
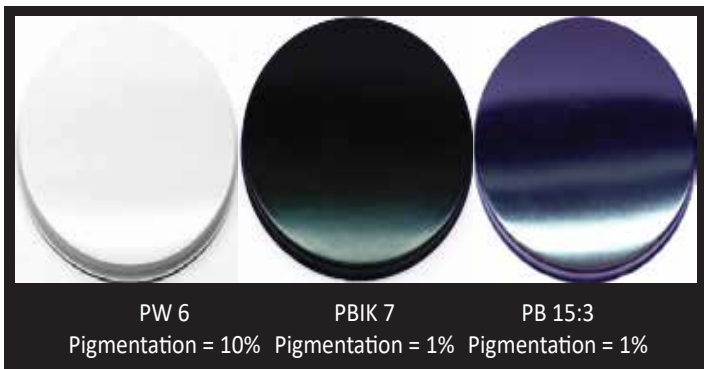
### Features of Pat-Add DA 895

- Efficient stabilization for both acidic and alkaline pigments
- Reduced viscosity of the system permits higher pigment loading
- Strong adsorption onto the pigment reduces risk of flotation and flocculation
- Outstanding stability in UPR colorants

### Flow behavior RMPC in Styrene free UPR



### UPR Colored Precast



### Tinting of UPR Colorants to White Gel Coats



- Highly recommended for styrene and styrene free UPR System
- Stage of addition : Millbase
- Dosage : Based on solids on pigment
  - Inorganic pigment : 1 - 10%
  - Organic pigment : 10 - 25%
  - Carbon black : 15 - 50%

# Pat-Add DA 932

## HMV Wetting and Dispersing Agent



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High Molar Volume technology polymeric wetting and dispersing agent. Its polymeric chain of higher volume mass results in a thicker adsorbed layer around the pigment particle thereby increasing their resistance to attractive forces; Improved resistance to flocculation.

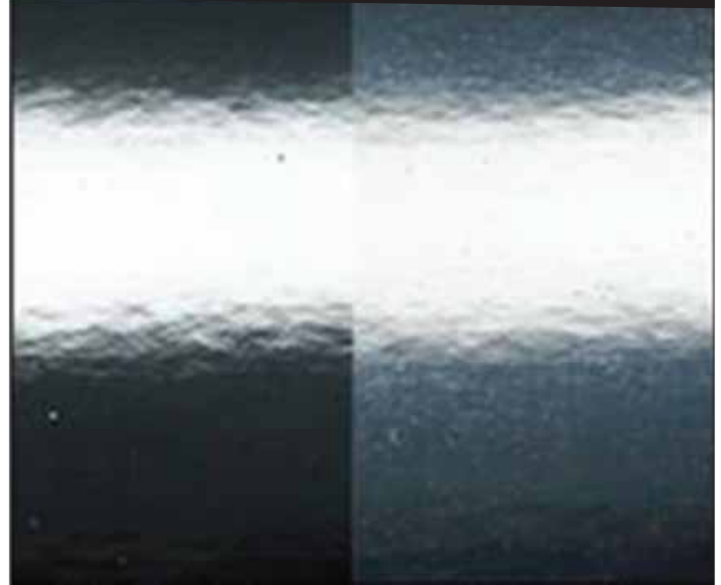
### Features of Pat-Add DA 932

- Faster pigment wetting to support dispersion and grinding process
- Reduces viscosity and time for the grinding process
- High color intensity for carbon black and organic pigments
- Prevents possible co-flocculation of different pigments through steric stabilization by HMV Technology
- Compatible in various resin systems especially for resins combination with CAB, NC and melamine

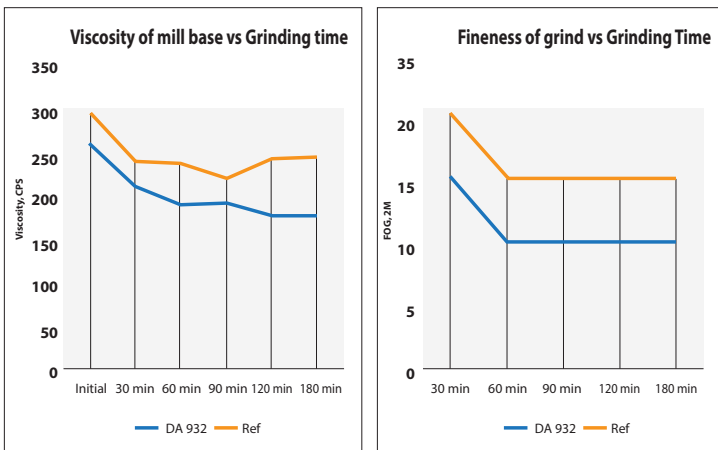
#### Automotive Basecoat TPA Black (CAB System)

Pat-Add DA 932

Reference



#### Dispersion of Carbon Black FW 200 in 2K PU System



- Solvent borne Universal Colorants - Resin minimal, Resin free pigment concentrates with inorganic, transparent/opaque organic pigments and all types of carbon blacks
- Direct grinding topcoats for Automotive OEM, Refinish and Industrial paints
- Stage of Addition : Millbase
- Dosage SOP
  - Inorganic Pigments : 10-15%
  - Organic Pigments : 40-60%
  - Black Pigments : 40-130%

# Pat-Add DA 948

## Wetting & Dispersing Additive for Solventborne & Solventfree system



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**High Molar Volume Technology:** 100% polymeric dispersing agent for solvent-free Epoxy Floor coating, pigment concentrates.

### Features of Pat-Add DA 948

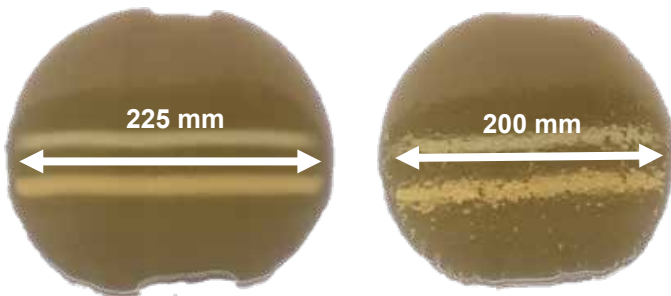
- Strong reduction in mill base viscosity
- Low foam stabilization and better spreading ability
- Meets FDA requirements of Indirect food additives: Adhesives and components of coatings like 21 CFR § 175.300 (Resinous and polymeric coatings)
- Solution for flotation and flocculation issues (In can and application)



Pat-Add DA 948

Reference

### Spread Index



Pat-Add DA 948

Reference

- Good compatibility with various resins like solvent free/solvent borne Epoxy, Polyurethane, Acrylic/Polyesters polyols.
- Stage of Addition: Millbase  
Dosage: 0.5-1.5% on total formulation

### Colorants in DOP for PVC Plastisol with Pat-Add DA 948



Pigment	SP.Black 4	PB 15:4	PR 112	PY 83
Pigment loading	30% Loading	30% Loading	30% Loading	20% Loading
Viscosity in poise	11.24	4.3	8.7	8.6
%SOP	33	25	20	20

# Pat-Add DA 1666

## Wetting & Dispersing Additive for Solventborne Coatings

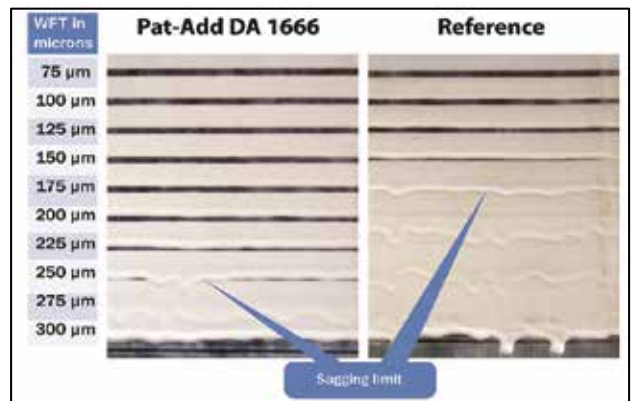
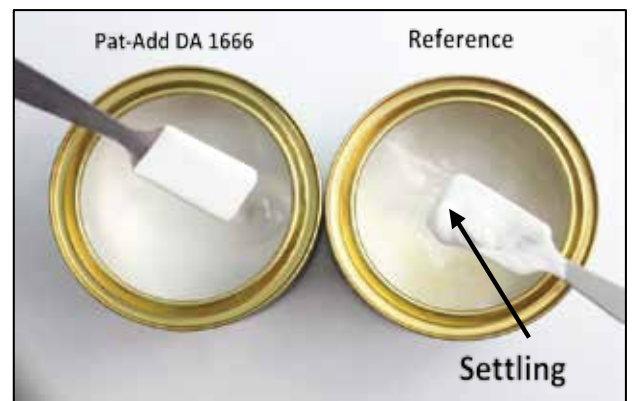


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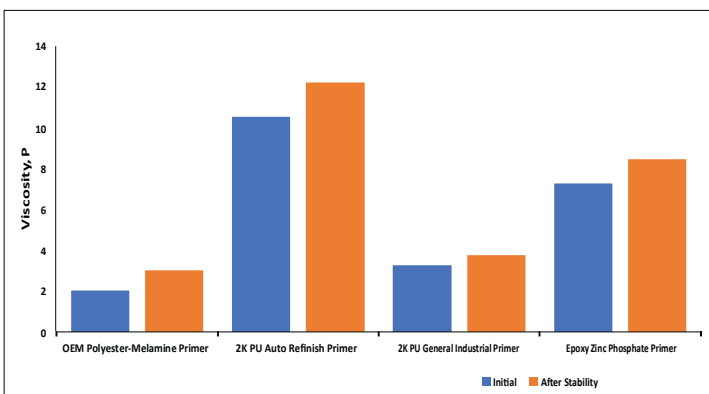
**Pat-Add DA 1666** is a unique pigment wetting and dispersing additive for solventborne applications.

### Features of Pat-Add DA 1666

- Electro neutral functionality of polymeric dispersant results in good wetting with various types of pigment surfaces irrespective of the surface charges and treatments
- Polyamide-polyester backbone is compatible with various binders
- Formation of hydrogen and  $\pi$ - bond to the molecules of binder creates a 3-dimensional structure that keeps pigment particles dispersed thereby preventing settling or reagglomeration
- Optimum millbase viscosity enables a higher loading of pigments and extenders
- Imparts balance between flow and anti-sag property



### Storage Stability of Primers with Pat-Add DA 1666



- Solventborne Automotive Refinish, OEM, Protective, Decorative and Industrial Coatings primers and intermediate coats
- Stage of Addition: Millbase
- Dosage: 0.3-0.8% on total formulation