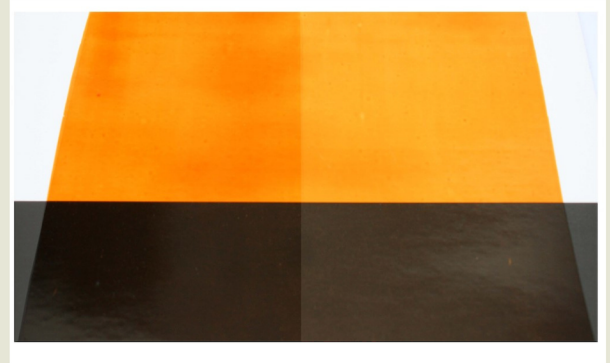


Dispersion of Transparent Iron Oxides

Transparent iron oxide pigments are highly valued for their unique combination of transparency, color intensity, and performance properties. It's primarily used in various industries such as paints, coatings, plastics, and cosmetics.

Dispersing transparent iron oxides in coatings can be challenging due to several factors:

- Particle size control
- Compatibility
- Stability
- Process Conditions



FOR WATERBORNE COLORANTS

Pat-Add DA 475

Pat-Add DA 475 is a polymeric type wetting and dispersing agent that shows strong interaction and high affinity for various types of pigments.

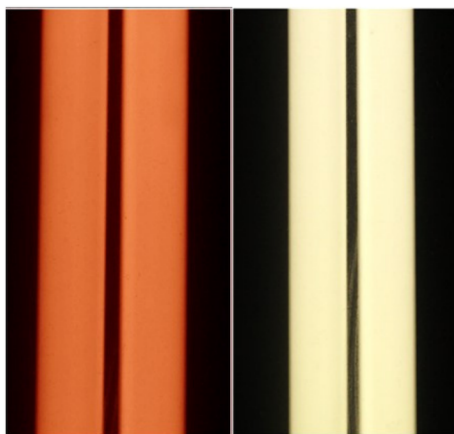
FOR SOLVENTBORNE COLORANTS

Pat-Add DA 3054

Pat-Add DA 3054 is a HAPs free HIA polymer technology wetting and dispersing additive for solventborne applications.

SUPERIOR COLOR TRANSPARENCY OF DISPERSED PIGMENTS

Pat-Add DA 475 Glycol-free Colorants
in 2K WB System



Transparent Red Iron Oxide

Transparent Yellow Iron Oxide

Pat-Add DA 3054 Aldehyde based
Colorants in 2K PU-CAB System

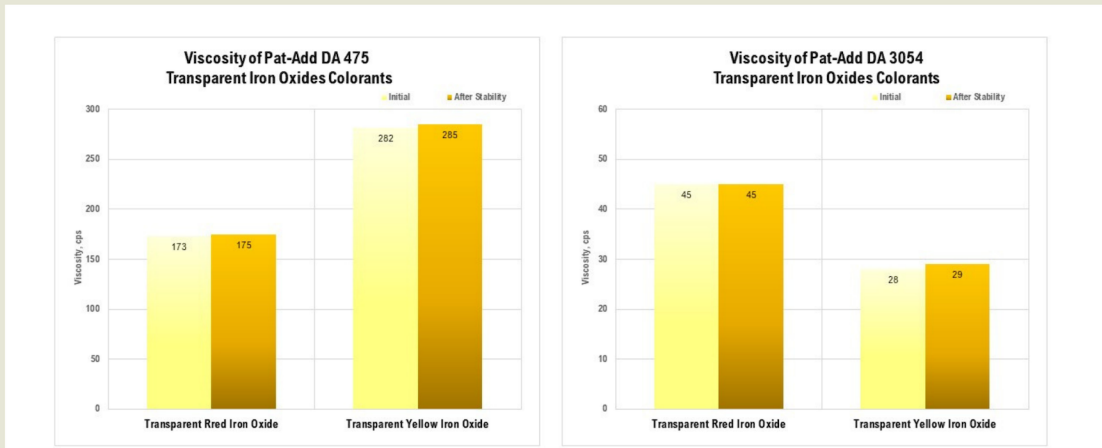


Transparent Red Iron Oxide

Transparent Yellow Iron Oxide

PATCHAM ADDITIVES FOR SOLVENTBORNE AND WATERBORNE Dispersion of Transparent Iron Oxides

EXCELLENT PIGMENT STABILIZATION



FORMULATION GUIDE

Raw Materials	Pat-Add DA 475		Raw materials	Pat-Add DA 3054	
Pigments	Transparent Red Iron Oxide Pigment	Transparent Yellow Iron Oxide Pigment	Pigments	Transparent Red Iron Oxide Pigment	Transparent Yellow Iron Oxide Pigment
CI Number	PR 101	PY 42	CI Number	PR 101	PY 42
%SOP	42.66%	46.67%	%SOP	50.0%	24.0%
Millbase			Mill base		
Water	20.00	20.00	Aldehyde Resin (60% solution in MPA)	25.00	10.00
Pat-Add DA 475	32.00	35.00	Pat-Add DA 3054	26.60	12.77
pH regulator	0.50	0.50	MPA	4.90	12.23
Pat-Add AF 35	0.30	0.30	Pigment	25.00	25.00
In-can preservative	0.20	0.20	Letdown		
Pigment	30.00	30.00	Aldehyde Resin (60% solution in MPA)	5.00	20.00
Letdown			MPA	13.50	20.00
Water	16.30	13.80	Total	100.00	100.00
Pat-Add Rheol 100	0.50				
Pat-Add AF 34	0.30	0.30			
Total	100.00	100.00			

FOR WATERBORNE COLORANTS

Pat-Add DA 475

RECOMMENDED DOSAGE:

30.0-50.0% based on solids of pigments

STAGE OF ADDITION:

Millbase

APPLICATION:

WB Architectural Coatings
WB General Industrial Coatings
WB Wood Coatings

FOR SOLVENTBORNE COLORANTS

Pat-Add DA 3054

RECOMMENDED DOSAGE:

20.0-50.0% based on solids of pigments

STAGE OF ADDITION:

Millbase

APPLICATION:

SB Architectural Coatings
SB General Industrial Coatings
SB Wood Coatings