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Chroma-Chem® AD

Pigment Dispersions for Reactive Coatings

The Colormatch® AD Series colorants have been designed for broad use in industrial coatings. These products have been formulated to provide a colorant system specifically designed for polyurea coatings that allows the coatings formulator the ability to tint or fully pigment polyurea bases.

► Key Benefits

The AD Series pigment dispersions for polyurea coatings applications consist of organic and inorganic colorants dispersed in an amine carrier. The carrier vehicle has been chosen for its excellent compatibility with polyurea coatings systems.

The AD Series colorants are based on a JEFFAMINE® D2000*. The carrier is a polyoxy propylene diamine resin that is a di-functional, primary amine having an average molecular weight of approximately 2000. The amine groups are located on the secondary carbon atoms at the ends of an aliphatic polyether chain.

The colorants utilize prime pigment and are formulated to ensure excellent color control. The pigments used in this line have good lightfastness and acid and alkali resistance.

* JEFFAMINE is a registered trademark of Huntsman LLC or an affiliate thereof in one or more, but not all, countries.

► Properties

The dispersing resin in the AD Series is a low viscosity resin that performs well as a dispersing and stabilizing resin due to its molecular weight. The resin will react with ambient moisture. So, exposure to moisture should be minimized during handling and storage.

Tint strength specifications are $\pm 5\%$ of the standard. Color specifications vary by product and are based on the color space.

► Applications

The AD Series is formulated for use in polyurea industrial coatings including, but not limited to, concrete protection, general industrial, industrial maintenance, marine, plastic, and other protective coatings.

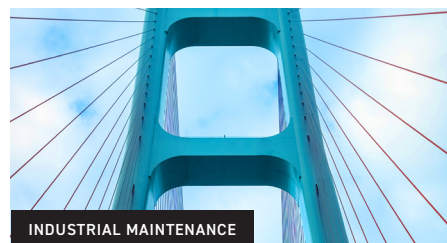
► Compatibility

The AD Series colorants are compatible with many coating systems based on epoxy, polyamide, polyaspartic, and polyurea systems. This line is also miscible with many solvents including aliphatic and aromatic hydrocarbons, alcohols, esters, glycol ethers, ketones, and reactive diluents. They are insoluble in water.

► Shelf Life

Proper handling is essential to maintain good quality. It is recommended that the colorants be mixed prior to use. Containers should be tightly sealed when not in use. A dry nitrogen blanket is recommended for longer storage times. Repacking the colorant into a smaller container should be considered if the colorant level in the container is less than 20% of the original amount and will be stored for an extended period of time.

Shelf life on the AD Series colorants is 2 year from the date of manufacture in unopened containers.



Product Code	Description	CI Name	% Pigment		% Non-Volatiles		Specific Gravity	VOC ^a g/L	Pigment Lightfastness		Pigment Resistance	
			X Wt.	X Vol.	X Wt.	X Vol.			Mass	Tint	Acid	Alkali
AD-10306	AD White	White 6	64.2	30.3	35.8	69.7	1.93	<10	N	N	N	N
AD-10320	Exterior White	White 6	60.3	26.9	39.7	73.1	1.83	<10	N	N	N	N
AD-20666	Tinting Black	Black 7	15.0	8.9	85.0	91.1	1.06	<10	N	N	N	N
AD-20877	Black	Black 7	26.5	17.0	73.5	83.0	1.12	<10	N	N	N	N
AD-30319	Blue	Blue 15:2	7.0	4.1	93.0	95.9	1.02	<10	N	N	N	N
AD-30342	Phthalo Blue	Blue 15:2	21.6	13.6	78.4	86.4	1.10	<10	N	N	N	N
AD-50161	Phthalo Green BS	Green 7	25.0	13.7	75.0	86.3	1.15	<10	N	N	N	N
AD-60155	Orange	Orange 34	15.0	10.9	85.0	89.1	1.04	<10	A	A	N	N
AD-70475	Red IO	Red 101	50.0	16.9	50.0	83.1	1.65	<10	N	N	N	N
AD-70487	Light Organic Red	Red 170	30.0	24.1	70.0	75.9	1.08	<10	N*	S*	N	N
AD-70505	Violet	Red 202	15.0	9.8	85.0	90.2	1.05	<10	N	N	N	N
AD-70506	Red Shade Violet	Violet 19	15.0	10.1	85.0	89.9	1.05	<10	S	S	N	N
AD-70684	IO Red BS	Red 101	57.0	21.2	43.0	78.8	1.82	<10	N	N	N	N
AD-80387	Yellow IO	Yellow 42	40.0	13.9	60.0	86.1	1.42	<10	N	N	N	N
AD-80395	Red Shade Yellow	Yellow 62/110	30.0	20.5	70.0	79.5	1.13	<10	N*	N*	S	S

^a Expected value based on formulation

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Lightfastness and Resistance Key			
N	no bleed/discoloration	*	no Florida data, only Fadeometer
S	slight	**	no data
A	appreciable		

Lightfastness and Resistance information is provide for guidance purposes only.
Source: NPRI Raw Materials Data Handbook Volume 4 (@ 2000)



Where Art Meets Technology