

Pigment Dispersions for Industrial Coatings

The DH Series has been designed to provide an effective way to tint many solvent-based and solvent-free industrial coatings where flexibility of the coatings film is required. This line of colorants consist of organic and inorganic pigments dispersed in a non-phthalate plasticizer.

Key Benefits

The DH Series pigment dispersions for industrial applications consist of organic and inorganic pigments milled in 1,2-cyclohexanedicarboxylic acid diisononyl ester. The use of a non-phthalate plasticizer provides similar properties compared to traditional phthalate plasticizers, but does not have the negative health effects associated with those phthalate plasticizers.

In some instances, flexibility of the coatings film is key to its performance. For instance, vinyl films for automotive and fleet decals need to remain flexible for the finishing process and ease of application of the final product. Typical resin-based colorants will interfere with the final properties. When a colorant system based on a plasticizer is used, the final properties can be maintained throughout the tinting process.

Chromaflo Technologies can blend the masstone colorants to produce a single color pack that will match the final desired color. The color packs can be packaged in multiple container types including drums, pails, gallons, or quarts to provide a means to color coatings on-site.

Applications

The DH Series is formulated for use in many industrial systems including, but not limited to adhesives, sealants, caulk, vinyl films, gloves, and automotive leather coatings.

Properties

The DH Series pigment loading is relatively high to ensure optimal coverage at lower colorant levels and to allow for strength adjustments in blended color packs. The colorants are formulated with a viscosity profile to ensure in-can stability of the masstone colors or any pre-blended color packs.

The tint strength of these colorants is controlled by weight to $\pm 5\%$ to ensure optimal tinting performance for in-plant tinting. The color difference is controlled to specification ranges that are set based on human perception of various color spaces.

Compatibility

The DH Series colorants are compatible with a wide range of acrylic, epoxy, urethane, and vinyl systems and a variety of solvents commonly used in coatings.

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.

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



AUTOMOTIVE LEATHER



ADHESIVES



GLOVES

DH SERIES TECHNICAL DATA

Product Code	Description	CI Index	%Pigment		%Plasticizer		%Other Non-volatiles		Specific Gravity	Pigment Lightfastness		Pigment Resistance	
			X Wt.	X Vol.	X Wt.	X Vol.	X Wt.	X Vol.		Mass	Tint	Acid	Alkali
DH-02876	Black LV	Bk 7	37.0	23.8	60.5	73.5	2.5	2.7	1.15	N	N	N	N

Lightfast and Resistance Key			
N	no bleed / discoloration	*	no Florida data, only Fadeometer
S	slight	**	no data
A	appreciable		
<i>Lightfastness and Resistance information is provide for guidance purposes only. Source: NPIRI Raw Materials Data Handbook Volume 4 [Copyright © 2000]</i>			

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