Additives for Industrial Coatings

Color Solutions

Chroma-Chem® UCD® Additives

General Information

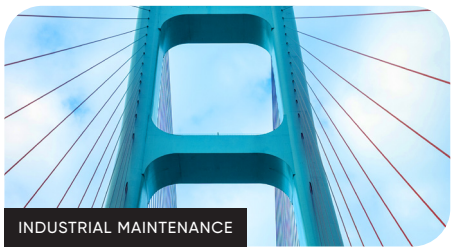
The UCD additives have been designed to work in conjunction with our industrial colorants. The additives have been formulated to minimize or eliminate pigment settling, improve coating performance, and adjust gloss levels.

Key Benefits

These additives were designed to improve the performance of various solvent-based and water-based coatings. The additive systems are similar to the UCD colorants and will have excellent compatibility with our colorants as well as the finished coatings.

All of these additives are liquids and will provide products that are generally easier to incorporate when compared to dry powders. The use of our proven acrylic technology means superior compatibility with modern coatings.

All additives utilize our proven acrylic resin technology to create additives that have broad compatibility. The primary solvent for the solvent-based additives is mineral spirits. The UCD-2148Q contains a small level of Butyl Cellosolve (Glycol Ether EB) as a co-solvent. The combination of the unique additives within the resin matrix provides excellent compatibility and incorporation in most coatings.


INDUSTRIAL MAINTENANCE


PROTECTIVE


GENERAL INDUSTRIAL FINISHES

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Properties

All additives are thixotropic, but flow easily. The thixotropy of the additives provides resistance to settling and aids the long-term shelf stability of these products.

Since all coatings systems are different, it is recommended that a ladder study be performed to determine the appropriate level of the additive to achieve the desired properties. A general starting point range will be 3 - 5% by weight of the total coating.

Applications

The products are formulated for use in most industrial coatings including, but not limited to, aerosols, automotive OEM, concrete protection, general industrial finishes, general OEM, industrial maintenance, marine, and protective coatings.

Compatibility

These additives will be compatible with many solvent-based and water-based coatings. Similarly to the UCD colorants, these additives will be compatible with many resin systems based on acrylic, epoxy, polyester, alkyd, polyurethane, and vinyl polymers.

Shelf Life

Proper handling is essential to maintain good quality. It is recommended that the products be mixed prior to use. Containers should be tightly sealed when not in use. Repacking the material into a smaller container should be considered if the material level in the container is less than 20% of the original amount and will be stored for a extended period of time.

Shelf life on these products are three years from the date of manufacture in unopened containers.

Product Code	Description	Coating System Type	% Pigment		% Non-Volatiles		% Volatiles		Specific Gravity	VOC [a]
			X Wt.	X Vol.	X Wt.	X Vol.	X Wt.	X Vol.		g/L
UCD-2106N	Slick	Solvent	20.0	18.6	22.5	19.7	57.5	61.7	0.88	508
UCD-2226N	Flatting Paste	Solvent	23.0	10.4	17.0	16.1	60.0	73.5	0.95	568
UCD-2360N	Bentone	Solvent	8.0	4.0	17.9	14.9	74.1	81.1	0.85	626
UCD-9844N	MPA	Solvent	13.3	11.2	16.7	13.8	70.0	75.0	0.83	583
UCD-2148Q	Flatting Paste	Water	25.0	14.3	3.1	3.4	3.0/68.9*	3.8/78.5*	1.14	159

[a] Expected values based on formulation

* Water

UCD-2106N SLICK

This product is compatible with all solvent-based coatings. The characteristics of the polyolefin dispersion can improve properties such as slip, mar resistance, and pigment suspension. UCD-2106N is especially superior in its ease of incorporation and minimal gloss loss when used in solvent-based coatings. The UCD 2106N incorporates an ultra-compatible proprietary methacrylate resin as the dispersion vehicle. The resin to polyolefin ratio is lower than many comparable products.

UCD-2226N FLATTING PASTE

This is a solvent-based silica paste that can be added to your finished product to adjust gloss in-plant or in the field. Unlike many silica-based pastes, the UCD-2226N is thixotropic, which will resist settling and hard-packing.

UCD-2148Q FLATTING PASTE

This is a water-based silica paste that can be added to your finished product to adjust gloss in-plant or in the field. Similar to the UCD-2226N, the UCD-2148Q is thixotropic, which will resist settling and hard-packing.

UCD-2360N BENTONE PASTE

Bentone products are formed by replacing the inorganic cations in a clay mineral lattice with organic cations. This results in a compound that forms a thixotropic gel in organic liquids. UCD-2360N is a ready-to-use paste that can be post-added to coatings, without any preparation, to provide pigment suspension and sag resistance.

UCD-9844N MPA

This is a multipurpose flow additive that will provide sag control and pigment suspension with enhanced brushability and flow with minimal effects on viscosity and gloss. One of the benefits of UCD-9844N is that it can be post-added to control the pigment suspension, sagging, brushability, and flow.

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: NPIRI Raw Materials Data Handbook Volume 4 (© 2000)