

## + Novapint™ D

### Chromaflo Technologies meets the challenges of tinting water-based façade paints and plasters

Chromaflo Technologies has an extensive knowledge of façade products. With over twenty years of experience in fulfilling the highest demands in terms of water repellence and weather fastness, we are able to meet your requirements in façade tinting.

#### ► Application

Chromaflo Technologies Novapint D is especially recommended for the tinting of waterbased building systems. Novapint D colorants are used in exterior paints and plasters, based on silicate, silicone or synthetic resin, in all shades.

#### ► Properties

Novapint D has minimal impact on viscosity, sagging, hydrophobicity, water permeability, and for interior paints on scrub resistance. All our colorants are calibrated by weight and volume and are suited for use in in-plant tinting systems.

Novapint D is based on specially developed formulations and uses a wide range of inorganic pigments. This enables the colorants to generate many color shades in silicate and silicone façade systems. The Novapint D colorant range includes hydrophobic colorants for water-based binders, such as emulsion paints, mortars, silicone-emulsions and silicate based media. The colorants do not influence rheology. They offer very good light fastness and weatherability properties, and are suited for all shades, including dark colors.

#### ► Solar reflection

Dark surfaces heat up more than light ones do. This affects not just their coating but also the strength of the composite system. To avoid this as well as to save energy costs, it is common to apply only light colors.

Chromaflo Technologies offers an intelligent combination of conventional colorants that have excellent solar heat reflection properties, and an innovative black colorant (D-803) to replace carbon black or iron oxide black. This unique range of colorants enables the formulation of dark colors that achieve less heat absorption compared to conventional colorants.

#### ► Benefits

Novapint D colorants – both organic and inorganic – are fully compatible and can be used in combination with other technologies. This mixing of technologies is a perfect tool for creating a customized system, covering a complete paint technology portfolio including water and solvent borne products. Novapint D offers a wide color space, cost efficiency and compliance with all technical challenges, requirements and regulation.

#### ► Our Services

As a frontrunner in integrating tinting solutions, Chromaflo Technologies provides excellent service in the set-up of your tinting systems as well as smooth colorant technology conversions. Our technical support includes:

- Assurance of colorant and base paint compatibility
- System design, optimization and pigment selection
- Color matching and database development
- Equipment compatibility and sales support

Stringent production controls and processes ensure that all colorants are manufactured to rigid specifications for color shade, strength and rheology. The end result is assured color accuracy and reproducibility.



Name	Color	Pigment	Pigment content of colorant [%]	Light Fastness of Pigment <sup>1</sup>		Weather Resistance of Pigment <sup>2</sup>		Density of Colorant (kg/m <sup>3</sup> )
				Mass	Tint	Mass	Tint	

Inorganic pigment <sup>3</sup>:

D-11	White	PW 6	75	8	N.A	5	N.A	2382
D-800	Black Oxide	PBk 33	69	8	8	5	5	2257
D-802	Black Oxide	PBk 11	48	7	8	5	5	1911
D-100	Yellow Oxide	PY 42	58	8	8	5	5	1807
D-117	Orange Oxide	PY 42	58	8	8	5	5	1767
D-/K-200	Red Oxide	PR 101	64	8	8	5	5	2103
D-220	Red Oxide	PR 101	58	8	8	5	5	1797
D-204	Red Oxide	PR 101	64	8	8	5	5	2089
D-224	Violet Oxide	PR 101	58	8	8	5	5	1862
D-102	Yellow	PY 53	73	8	8	4-5	4-5	2307
D-104	BiVa Yellow	PY 184	50	8	8	4-5	4-5	2013
D-105	BiVa Yellow	PY 184	57	8	8	4-5	4-5	1899
D-106	BiVa Yellow	PY 184	57	8	8	4-5	4-5	1972
D-108	BiVa Yellow	PY 184	51	8	8	4-5	4-5	1972
D-126	Orange Oxide	PY 216	57	8	7-8	5	4-5	1863
D-123	Orange Oxide	PY 216	55	8	7-8	5	4-5	1838
D-119	Yellow	PBr 24	65	8	8	4-5	4-5	1785
D-803	Black NIR	PBr 29	70	8	8	5	4-5	2452
D-905	Blue Ultramarine	PB 29	49	8	8	4-5	5	1406
D-900	Blue Cobalt	PB 28	50	8	8	5	5	1951
D-907	Blue Cobalt	PB 36	50	8	8	5	5	2000
D-902	Turquoise Green	PB 28	46	8	8	5	5	2157
D-300	Oxide Green	PG 17	70	8	8	5	5	2281
D-301	Green Oxide	PG 50	65	8	8	5	5	2120
D-606	Violet Ultramarine	PV 15	60	8	8	5	5	1581

## Organic pigment:

D-500	Black	PBk 7	29	8	8	5	5	1168
D-107	Yellow	PY 154	33	8	8	5	5	1161
D-110	Orange	PR 168/ PY 154	37	8 / 8	8 / 8	5 / 5	4-5 / 5	1168
D-201	Red	PR 168	36	8	8	5	4-5	1231
D-210	Red	PR 112	45	8	6	4-5	3	1180
D-203M	Red	PR 168/ PR 122	22	8 / 7	8 / 7-8	5 / 4	4-5 / 4-5	1310
D-213	Magenta	PR 122	21	7	7-8	4	4-5	1092
D-400	Blue	PB 15:3	48	8	8	5	4-5	1252
D-305	Green	PG 7	52	8	8	5	4-5	1380
VP-1391	Red Violet	PV 19	28	6-7	7-8	4	4	1129

The values given in the table are guidance figures only. The data is obtained from pigment suppliers, individual testing is recommended.

<sup>1</sup> Light fastness is measured on an eight step blue scale, where 1 = very poor light fastness, 8 = excellent light fastness.

<sup>2</sup> Weather resistance is measured on a five step gray scale, where 1 = very poor weather resistance, 5 = excellent weather resistance.

<sup>3</sup> Colorant containing inorganic pigment(s). Chromaflo Technologies recommends to use only colorants containing inorganic pigments in high alkaline environments and in exterior silicate or silicone based products.