VIOLETECH

HPP For Coatings

COLORPERM® -- Carbazole Violet

VT2303W/VT2304W

Dioxazine Pigment

Pigment Violet 23

Good Weather-fastness, Heat Stability and all-round Fastness Properties

High Color Strength with Very Good Gloss Retention

Excellent Dispersion and Rheological Properties with Enhanced Storage Stability

Excellent Rub-out Resistance, Suitable for Waterborne Coatings

Architectural *Industrial* *Automobile* *Decorative*

Applications

• Architectural Coatings	■
• Industrial Coatings	■
• Decorative Coatings	■
• Automotive Paint -OEM	■
• Automotive Paint - Refinish	□

■ HIGHLY RECOMMENDED □ RECOMMENDED

Compliances

- EC: Resolution AP 89 (1)
- European Toy Norm: 71-3-2013
- France: Brochure 1227
- Germany: BfR IX
- Italy: Decreto 21/3/73
- USA: ASTM-toys
- Japan: JHPA List Clear
- China: GB9685-2016

REACH

Fully REACH Registered

VIOLETECH

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VT2303W/VT2304W

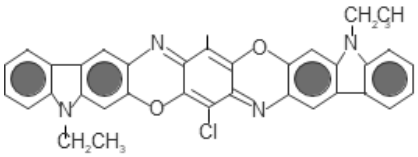
Dioxazine Pigment

Pigment Violet 23

Bluish Violet Shade
CI Index: 51319
C.A.S. # 215247-95-3
EINECS. # 606-790-9

Product Overview

COLORPERM® VT2303W/2304W is a Dioxazine pigment specifically designed for both SB & WB coatings applications. It distinguishes itself by its very good resistance to flocculation and rub-out, which is a result of our unique surface treatment technique. It also exhibits excellent colorisitical properties as well as outstanding all-round fastness properties.



Properties & Benefits

- Superior Color Strength and Gloss (Chart A)
- Very Good Flocculation Resistance (Table A)
- Excellent Rheological Performance (Table B)
- Top-of-class Rub-out Resistance (Chart B)
- Good Durability & Fastness Properties (Table C)

CHART A: COLOR STRENGTH AND GLOSS TEST

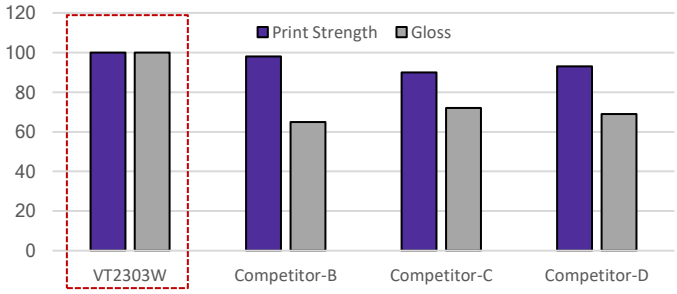


TABLE A: OPACITY TEST

VT2303W	Competitor-B	Competitor-C	Competitor-D
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TABLE B: VISCOSITY TEST

VT2303W	Competitor-B	Competitor-C	Competitor-D
121.6	342.2	292.0	512.7

Table C. 12% Pigment in Mill Base, measured in terms of viscosity/mPa*s.

Shade Indicator

Blue Shade	Red Shade
VT2303W →	VT2304W

CHART B: Rub-out Test Result

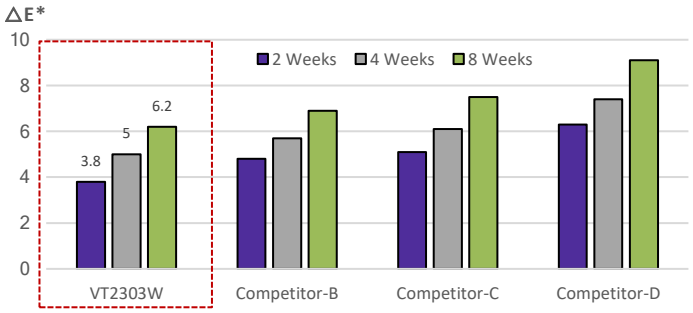

Chart B. The effect of storage at 50℃ on the results of the rub-out test for the various PV23 pigment products without dispersants.

TABLE C: FASTNESS PROPERTIES

Weather-fastness (Full Shade)	4-5
Weather-fastness (Reduced Shade)	2
Lightfastness (Full shade)	8
Lightfastness (Reduced Shade)	8
Alkali, 2.5% solution	5
Acids	5
Water	5
Ethanol	5
Paraffin Wax	5
Butyl Glycol	4-5
MEK	1
Xylene	4-5
Butanol	2-3
Heat Stability (10 min)	200℃

Lightfastness: 1= Poor 2-3 = Fair 4-5 = Good 6-7 = Very Good 8 = Excellent
Legend: 1 - Poor 2 - Fair 3 - Good 4 - Very Good 5 - Excellent

Disclaimer