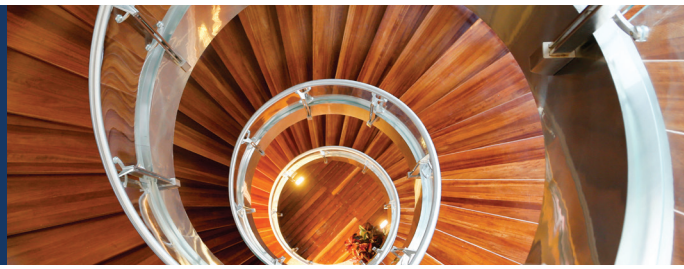
Milliken®

Keytint™

Pigment Dispersions



Keytint products are aqueous, high performance, surfactant-based pigment dispersions formulated specifically for both interior and exterior wood coatings. This line is designed to provide clean, excellent transparency, high gloss, and uniform color in spray, rolling, and wiping applications. Containing pigments milled to very fine standards, this product easily penetrates porous substrates and is compatibility tested to be used in a variety of water-based surfactant or resin systems.

Benefits

- Zero-VOC and submicron based
- Surfactant dispersions
- Interior and exterior
- Spray, wiping, and roll coating
- Good lightfastness
- Ready-to-use
- Non-photochemically reactive
- Flooring, cabinetry, and furniture
- Superior clarity
- Minimal to no grain raise

Product Name	Pigment	Chemistry
Keytint Y/S Red	Pigment Red 214	Azo Red
Keytint B/S Red	Pigment Red 23	Naphthol Red
Keytint Oxide Brown	Pigment Brown 6	Oxide Van Dyke Brown
Keytint Brown	Pigment Brown 23	Naphthalene-carboxamide
Keytint Raw Sienna	Pigment Yellow 43	Oxide Pigment
Keytint Burnt Sienna	Pigment Burnt Sienna Brown 7	Oxide Pigment

Product Name	Pigment	Chemistry
Keytint R/S Yellow	Pigment Yellow 83	Azo Yellow
Keytint G/S Yellow	Pigment Yellow 93	Azo Yellow
Keytint White	Pigment White 6	Titanium White
Keytint Black	Pigment Black 7	Carbon Black
Keytint Blue	Pigment Blue 15:3	Phthalocyanine
Keytint Green	Proprietary Blend	Azo/Phthalo-cyanine blend

Milliken

Milliken® Keytint™ Pigment Dispersions

Experimentation was performed with a weighted water/acetone mix as indicated. With order of addition effecting stability, it is recommended the solvent be mixed with water prior to adding the color under agitation. 20% acetone should be the maximum allowed in the premix to avoid stability issues.

Color	Chemistry	Grams/Liter	Solids %	Particle Size	pH	Viscosity Ranges CPS @ 25C w/#2 Spindale	Specific Gravity	Pigment %
Y/S Red	Azo Red	1042 +/- 25	26.46 +/- 2	< 0.3 micron µ	8.1 - 9.1	200 - 500	1.04	12.70
B/S Red	Naphthol Red	1054 +/- 25	34.84 +/- 2	< 0.3 micron µ	8.1 - 9.1	400 - 700	1.05	23.20
Oxide Brown	Oxide Van Dyke Brown	1210 +/- 25	46.50 +/- 2	< 5.0 micron µ	8.9 - 9.9	400 - 700	1.21	35.00
Brown	Naphthalenecarboxamide	1054 +/- 25	21.00 +/- 2	< 0.8 micron µ	8.9 - 9.9	400 - 700	1.05	10.00
Raw Sienna	Oxide Pigment	1330 +/- 25	40.00 +/- 2	< 5.0 micron µ	8.9 - 9.9	400 - 700	1.33	35.00
Burnt Sienna	Oxide Pigment	1258 +/- 25	47.06 +/- 2	< 5.0 micron µ	8.9 - 9.9	400 - 700	1.25	35.00
R/S Yellow	Azo Yellow	1042 +/- 25	34.77 +/- 2	< 0.3 micron µ	8.1 - 9.1	400 - 700	1.04	22.20
G/S Yellow	Azo Yellow	1042 +/- 25	24.80 +/- 2	< 0.3 micron µ	8.1 - 9.1	800 - 1100	1.04	14.50
White	Titanium White	1700 +/- 25	67.50 +/- 2	< 1.5 micron µ	8.9 - 9.9	300 - 700	1.70	55.00
Black	Carbon Black	1090 +/- 25	44.61 +/- 2	< 0.3 micron µ	8.1 - 9.1	300 - 700	1.09	33.00
Blue	Phthalocyanine Pigment Dispersion	1100 +/- 25	36.02 +/- 2	< 0.3 micron µ	9.5 - 10.5	400 - 700	1.10	25.21
Green	Proprietary Pigment Dispersion	1138 +/- 25	36.00 +/- 2	< 0.3 micron µ	9.1 - 10.1	400 - 700	1.13	25.21

Color	Pigment Lightfastness: Blue Wool Scale 1-8 *	Water/Acetone Premix:									
		90/10		80/20		70/30		60/40		50/50	
		10%	25%	10%	25%	10%	25%	10%	25%	10%	25%
Y/S Red	7	pass	pass	pass	pass	fail	fail	fail	fail	fail	fail
B/S Red	6	pass	pass	pass	pass	fail	fail	fail	fail	fail	fail
Oxide Brown	7	pass	pass	pass	pass	fail	fail	fail	fail	fail	fail
Brown	7	pass	pass	pass	pass	fail	fail	fail	fail	fail	fail
Raw Sienna	7	pass	pass	pass	pass	fail	fail	fail	fail	fail	fail
Burnt Sienna	6	pass	pass	pass	pass	fail	fail	fail	fail	fail	fail
R/S Yellow	6	pass	pass	pass	pass	fail	fail	fail	fail	fail	fail
G/S Yellow	7	pass	pass	pass	pass	fail	fail	fail	fail	fail	fail
White	**	pass	pass	pass	pass	pass	pass	pass	pass	fail	fail
Black	**	pass	pass	pass	pass	pass	pass	pass	pass	fail	fail
Blue	6	pass	pass	pass	pass	fail	fail	fail	fail	fail	fail
Green	6	pass	pass	pass	pass	fail	fail	fail	fail	fail	fail

The pigment lightfastness was run for 1000 hours, then calculated using the Blue Wool scale which is rated 1-8 with 1 being the lowest and 8 being the highest
** Lightfastness on black and white pigments are usually not measured because they typically have good UV resistance**

NORTH AMERICA
Spartanburg, SC, USA
Tel: 800-910-5592
Fax: 864-503-2430
millichem@milliken.com

EUROPE
Gent, Belgium
Tel: 32-9-265-1100
Fax: 32-9-265-1195
eurochem@milliken.com

LATIN AMERICA
Sao Paulo, Brazil
Tel: 55-11-3043-7942
Fax: 55-11-3043-7096
lachem@milliken.com

LATIN AMERICA
Mexico City, Mexico
Tel: 52-55-3088 3600
Fax: 52-55-9000 2643
lachem@milliken.com

ASIA
Singapore
Tel: 65-6377-0770
Fax: 65-6377-0990
asiachem@milliken.com

ASIA
Shanghai
Tel: 86-21 6145-5555
Fax: 86-21 6145-5558
asiachem@milliken.com

ASIA
Pune, India
Tel. 91.20.6730.7501
Fax. 91.20.6730.7514
asiachem@milliken.com

1.28.2020

chemical.milliken.com