Quaker Color

BRF Series

QUAKER COLOR™ BRF Series dispersions are resin-free, water-based, low-VOC and APE-free. They are designed to be used in waterborne or water-reducible industrial and architectural coatings, inks, and stains. BRF Series dispersions are pourable while being formulated with high pigment loadings. These dispersions are resin-free, they are compatible with most water-based applications.

- **Cost effective**
- **APE-free, low-VOC (<50 g/l)**
- **Minimal effect on coating properties**

Technology

QUAKER COLOR™ BRF Series dispersions are surfactant based. They have been developed with a high-performance dispersing package designed for industrial coatings. They are glycol-free and as such will have minimal influence on coating properties like gloss, hardness, moisture resistance, and rheology.

Pigmentation

The pigments used in the BRF Series were specifically selected to provide excellent light and weather fastness for the most demanding exterior applications. Due to their high concentration, they provide excellent hiding in masstone applications and only require small additions in tint type applications.

Volatiles

The QUAKER COLOR™ BRF Series are low-VOC (<50g/l) waterborne dispersions. A small amount of monoethanolamine is added for pH adjustment. This results in better coating property retention than using caustic potash which is typically used in low-VOC waterborne dispersions. It does contribute to total VOC.

Applications

QUAKER COLOR™ BRF Series dispersions are designed for in-plant tinting of waterborne products, their use is recommended in, but not limited to industrial coatings, furniture finishes, architectural coatings, wood coatings, enamels and waterborne caulks and grouts.

Compatibility

The BRF Series dispersions are compatible in most waterborne and water-reducible coating types like acrylic, styrene acrylic, alkyd emulsion, PUD urethane, vinyl acrylic, epoxy, and 2k urethane.

Use

BRF Series colorants are stir-in grades. They should be added under mild agitation. Store at room temperature; prevent from freezing.

Quaker Color is happy to develop custom colors or resin systems. Please contact your local representative concerning minimum quantities and turn-around times.

QUAKER COLOR™ BRF Series

Resin-Free ■ APE-Free ■ Low-VOC ■ Waterborne

Code	Description	P.I. Number	Specific Gravity		Light Fastness			Chemical Fastness								Composition by Weight [%]			VOC
			WPG [LB./Gal.]	Density [g/ml]	Masstone	Tint	Temperature Resistance [oC]	Acid	Alkaline	Butanol	Butyl Glycol	Butyl Acetate	MEK	Mineral Spirits	Xylene	Pigment Solids	Vehicle Solids	Volatiles	[g/l]
BRF-B152-5217	Phthalo Blue (RS)	PB 15:2	9.7	1.16	8	7-8	200	5	5	4-5	4-5	4-5	4-5	5	4	40.0	4.5	55.5	37
BRF-B153-7901	Phthalo Blue (GS)	PB 15:3	9.7	1.16	8	7-8	200	5	5	4-5	4-5	4-5	4-5	5	5	40.0	4.2	55.8	10
BRF-BK7-010	Tinting Black	PBk 7	9.8	1.17	8	8	200	5	5	5	5	5	5	5	5	38.0	2.5	59.5	<10
BRF-BK7-M4	Masstone Black	PBk 7	9.2	1.10	8	8	200	5	5	5	5	5	5	5	5	25.0	10.8	64.2	<10
BRF-BNU-2748	Burnt Umber	PBr 7	9.1	1.09	8	7-8	200	5	5	5	5	5	5	5	5	45.0	8.4	46.6	32
BRF-G7-5212	Phthalo Green	PG 7	10.5	1.26	8	7-8	200	5	5	5	4	5	5	5	5	36.0	4.2	59.8	<10
BRF-O34-8501	Diarylide Orange	PO 34	9.2	1.10	6-7	5-6	200	5	5	5	4-5	4	3-4	4-5	3	40.0	4.2	55.8	<10
BRF-O73-5215	DPP Orange	PO 73	8.8	1.06	8	7-8	200	5	5	4-5	4-5	4-5	5	5	5	36.0	4.4	59.6	47
BRF-R1011-82	Burnt Sienna	PR 101:1	14.0	1.68	8	7-8	200	5	5	5	5	5	5	5	5	55.0	8.3	36.7	28
BRF-R101-841	Red Iron Oxide	PR 101	16.2	1.94	8	7-8	200	5	5	5	5	5	5	5	5	60.0	4.6	35.4	43
BRF-R122-10218	Quinacridone Magenta	PR 122	8.9	1.07	8	7-8	200	5	5	4-5	4-5	4-5	4-5	5	5	30.0	11.6	58.4	10
BRF-R254-7902	DPP Red	PR 254	9.7	1.16	8	7-8	200	5	5	4-5	4-5	5	4-5	5	5	40.0	4.0	56.0	10
BRF-R264-5218	DPP Rubine Red	PR 264	9.0	1.07	8	7-8	300	5	5	5	5	5	5	5	5	30.0	6.3	63.7	25
BRF-RT101-2750	Transparent Red Oxide	PR 101	12.1	1.45	8	7-8	200	5	5	5	5	5	5	5	5	40.0	7.5	52.5	35
BRF-V23-857	Carbazole Violet	PV 23	8.9	1.07	8	7-8	160	5	5	5	4-5	5	4	5	4-5	20.0	4.8	75.2	15
BRF-W6-1204	Titanium Dioxide	PW 6	17.4	2.08	8	8	200	5	5	5	5	5	5	5	5	70.0	2.2	27.8	30
BRF-Y110-5206	Isoindolinone Yellow	PY 110	8.8	1.05	8	8	200	5	5	5	5	4-5	4-5	5	5	37.0	3.9	59.1	<10
BRF-Y151-868	Benzimidazolone Yellow	PY 151	9.7	1.16	7-8	7	200	5	3-4	4-5	4	4-5	4-5	5	4-5	40.0	4.2	55.8	<10
BRF-Y155-2900	Benzimidazolone Yellow	PY 155	9.3	1.11	8	8	200	5	5	5	5	5	4-5	5	5	32.0	4.4	63.6	11
BRF-Y184-7903	Bismuth Vanadate Yellow	PY 184	9.5	1.14	8	8	200	4-5	5	5	5	5	5	5	5	60.0	4.2	35.8	17
BRF-Y42-5224	Yellow Iron Oxide	PY 42	13.7	1.64	7-8	7-8	180	5	5	5	5	5	5	5	5	53.0	3.7	43.3	17
BRF-Y74-1122	Arylide Yellow (GS)	PY 74	9.2	1.10	7-8	5-6	140	5	5	3-4	3-4	3	3	4	2-3	40.0	7.8	52.2	<10
BRF-YT42-2751	Transparent Yellow Oxide	PY 42	12.1	1.45	7-8	7-8	180	5	5	5	5	5	5	5	5	40.0	7.5	52.5	35

BRF-B152-5217 Phthalo Blue (RS)

BRF-B153-7901 Phthalo Blue

BRF-BK7-010 Tinting Black

BRF-BK7-M4 Masstone Black

BRF-BNU-2748 Burnt Umber

BRF-G7-5212 Phthalo Green

BRF-O34-8501 Diarylide Orange

BRF-O73-5215 DPP Orange

BRF-R1011-82 Burnt Sienna

BRF-R101-841 Red Iron Oxide

BRF-R122-10218 Quinacridone Magenta

BRF-R254-7902 DPP Red

BRF-R264-5218 DPP Rubine Red

BRF-RT101-2750 Transparent Red Oxide

BRF-V23-857 Carbazole Violet

BRF-W6-1204 Titanium Dioxide

BRF-Y110-5206 Isoindolinone Yellow

BRF-Y151-868 Benzimidazolone Yellow

BRF-Y155-2900 Benzimidazolone Yellow

BRF-Y184-7903 Bismuth Vanadate Yellow

BRF-Y42-5224 Yellow Iron Oxide

BRF-Y74-1122 Arylide Yellow (GS)

BRF-YT42-2751 Transparent Yellow Oxide

Lightfastness is on a scale from 1-8 with 1 being worst and 8 being best
Chemical fastness is on a scale from 1-5 with 1 worst and 5 best

* VOC is based on calculations. Traces of VOC might be present in “Zero”- VOC dispersions

Quaker Color manufactures all its products under carefully controlled conditions to meet rigid specifications. The values given in this publication are typical values intended as guidelines for the use of the products, they are not specifications. It is the user’s responsibility to thoroughly test the product in their particular application to determine its performance, efficacy and safety. sShould you require the actual specifications currently enforced on specific products contact your Quaker Color representative for the appropriate information.

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