

Water in Silicone Foundation using D/I Hydrophobic Pigments

The D/I Hydrophobic pigments wet well in the external oil/silicone phase without flotation or plate out.

Ingredient	INCI Name	Supplier	%
Phase 1			
Xiameter® PMX-0245 Silicone fluid	Cyclopentasiloxane	Dow Chemical	6.00
KF-6038	Lauryl PEG-9 Polydimethylsiloxyethyl Dimethicone	Shin-Etsu	2.00
Sibrid® DE-12	Polydiethylsiloxane	Gelest	5.00
Rhodasurf L7-90	Laureth-7	Solvay	.50
Velvesil 125	Cyclopentasiloxane, C30-45 Alkyl Dimethicone	Momentive	10.00
	Crosspolymer		
Phase 2			
Sibrid® DE-12	Polydiethylsiloxane	Gelest	7.00
D-9812/I Hydrophobic Titanium Dioxide	Titanium Dioxide, Methicone	Color Techniques	8.00
D-9131/I Hydrophobic Yellow Iron Oxide	Iron Oxides, Methicone	Color Techniques	1.20
D-9126/I Hydrophobic Red Iron Oxide	Iron Oxides, Methicone	Color Techniques	.45
D-9146/I Hydrophobic Black Iron Oxide	Iron Oxides, Methicone	Color Techniques	.20
D-10230/I Hydrophobic Talc	Talc, Methicone	Color Techniques	4.15
Phase 3			
Deionized Water	Aqua/Water		49.20
Magnesium Sulfate	Sodium Chloride		.20
Butylene Glycol	Butylene Glycol		4.00
Hydrolite® 6	Hexylene Glycol	Symrise	2.00
Benzoic Acid	Benzoic Acid		.10
			100.00

Continued

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Manufacturing Procedure:

- 1- Combine liquids (first four ingredients of Phase 1) with agitation. Add Velvesil 125 with medium homogenization until no lumps remain.
- 2- Combine Phase 2 in a separate vessel with stirring until the pigments are wet. Disperse the pigments using a three roll or media mill. Add to Phase 1 continuing agitation.
- 3- In a separate vessel, dissolve Phase 3 MgSO₄ in deionized water with stirring. Dissolve Phase 3 Benzoic Acid and Hydrolite® 6 in Butylene Glycol. Add to the water/MgSO₄ with stirring.
- 4- Slowly add Phase 3 to combined Phases 1-2 with side sweep or moderate homogenization, just sufficient to take up the water as it is added.
- 5- When combined, pass through a colloid mill or homogenizer for 5-15 minutes prior to dropping the batch.