

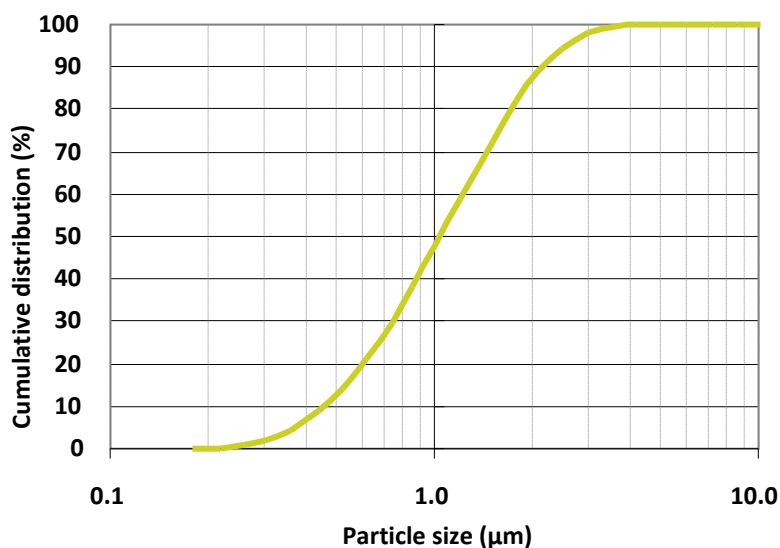
## FP-470 OPACITY PIGMENT

FP-470 is unique opacity pigment powder for use in solvent borne paint applications. FP-470 is designed to give optimal optical properties enabling partial replacement of TiO<sub>2</sub> in paints.

### FP-470 TYPICAL PIGMENT PROPERTIES

These are typical values but do not constitute specifications.

Dry Solids	%	99.0
Brightness (ISO)		95.0
L* value		98.8
b* value		1.4
Specific Surface Area (BET)	m <sup>2</sup> /g	10.0
Average Particle Size	µm	1.0
Specific Gravity		2.8
Oil absorption	g/100g	41.0
Surface coating		organic



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### Solvent based Decorative and Industrial Coatings

- 1: Test using a replacement ladder of 4, 8 and 12% FP-470.
- 2: Make a 1:1 weight for weight replacement of TiO<sub>2</sub> with FP-470.
- 3: Add the FP-470 to the millbase first immediately followed by the TiO<sub>2</sub> pigment.
- 4: Mill as normal, there should be no need to adjust any milling times.
- 5: Complete the coating as normal.

#### Example Formulation

#### Decorative Alkyd Coating

Material	Standard Weight (g)	4% FP-470 Weight (g)	8% FP-470 Weight (g)	12% FP-470 Weight (g)	Supplier
Synolac 60 WD 70 (40% sol.)	91.91	91.91	91.91	91.91	Arkema
FP-470	0	10.57	21.15	31.72	FP-Pigments
TIOXIDE® R-TC90	264.33	253.76	243.18	232.61	Huntsman Pigments
Synolac 60 WD 70 (40% sol.)	40.3	40.3	40.3	40.3	Arkema
<b>Subtotal</b>	<b>396.54</b>	<b>396.54</b>	<b>396.54</b>	<b>396.54</b>	
<b>Let down:</b>					
10% of above mill base	39.65	39.65	39.65	39.65	
70% Synolac 60 WD 70	48.99	48.99	48.99	48.99	Arkema
White Spirit	9.04	9.04	9.04	9.04	
Methyl Ethyl Ketoxime (MEKO)	0.29	0.29	0.29	0.29	
Durham VX 71	2.02	2.02	2.02	2.02	Cornelius
<b>Total</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	

	Standard	FP-470		
	TIOXIDE® R-TC90	4%	8%	12%
Visual Wet Opacity 80µm WFT	Std	=	=	=
Contrast Ratio 80µm WFT	95.4	95.4	95.2	94.9
Colour L*	96.5	96.5	96.4	96.4
Colour b*	2.7	2.8	2.7	2.7
Gloss 20°	87	83	84	86
Gloss 60°	91	91	91	92
Tint Strength	100	98.6	97.8	97.4