

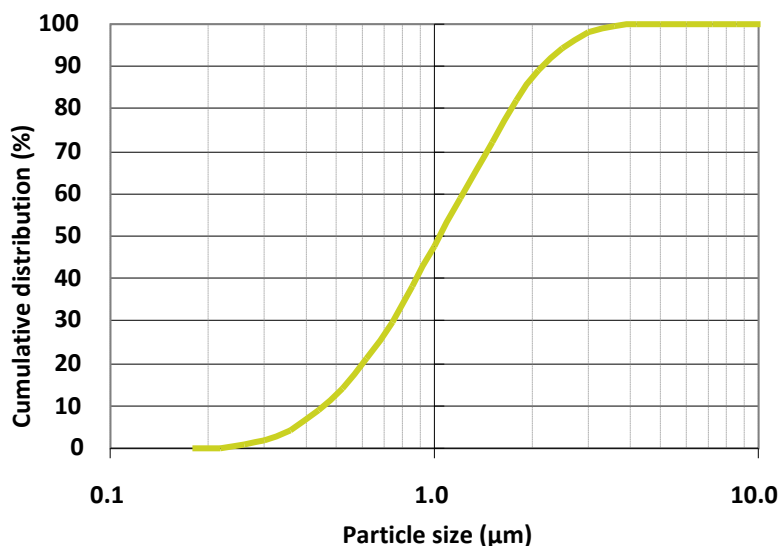
FP-490 OPACITY PIGMENT

FP-490 is unique opacity pigment powder for use in solvent borne paint applications. FP-490 is designed to give optimal optical properties enabling partial replacement of TiO₂ in paints.

FP-490 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 ² /g	10.0
Average Particle Size	µm	1.0
Specific Gravity		2.8
Oil absorption	g/ 100g	35.0
Surface coating		organic, hydrophobic



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Solvent based heavy Industrial Coatings

- 1: Test using a replacement ladder of 4, 8 and 12% FP-490.
- 2: Make a 1:1 weight for weight replacement of TiO₂ with FP-490.
- 3: Add the FP-490 to the millbase first immediately followed by the TiO₂ pigment.
- 4: Mill as normal, there should be no need to adjust any milling times.
- 5: Complete the coating as normal.

Example Formulation

Direct to Metal 2 Pack PU Coating

Material	Standard Weight (g)	4% Weight (g)	8% Weight (g)	12% Weight (g)
Component 1:				
Setalux 1906 BA-75	17.3	17.3	17.3	17.3
BYK 066	0.23	0.23	0.23	0.23
Disperbyk 110	0.36	0.36	0.36	0.36
Bentone 38, paste*	1.33	1.33	1.33	1.33
Thixatrol MAX	0.58	0.58	0.58	0.58
M-P-A 60 X	0.51	0.51	0.51	0.51
FP-490	0	0.66	1.31	1.97
Kronos 2310	16.4	15.74	15.1	14.43
Siokal 20	12.9	12.9	12.9	12.9
Grind (to <5µm) and let down with				
Setalux 1906 BA-75	18.43	18.43	18.43	18.43
BYK 320	0.22	0.22	0.22	0.22
BYK 358	0.99	0.99	0.99	0.99
TinStab BL 277 (1% in butyl acetate)	0.88	0.88	0.88	0.88
Dowanol PMA	2.87	2.87	2.87	2.87
Xylene	1.86	1.86	1.86	1.86
Component 2:				
Tolonate HDT-LV	11.74	11.74	11.74	11.74
Xylene	6.7	6.7	6.7	6.7
Dowanol PMA	6.7	6.7	6.7	6.7
Total	100	100	100	100

	Standard	FP-490		
	Kronos® 2310	4%	8%	12%
Contrast Ratio 80µm WFT	94.8	94.8	94.4	93.8
Colour L*	96.0	95.9	95.9	95.9
Colour b*	1.7	1.7	1.8	1.8
Gloss 20°	75	76	75	75
Gloss 60°	93	93	93	94
Gloss 85°	99	96	96	98
Tint Strength	100	98.7	98.1	97.1