



Industrial coating
Road marking paint, water-based, white
Titanium dioxide reduced, low film thickness (wet film < 600 µm)
high abrasion resistance

Basis		Acrylic emulsion			
	S 11401.3		[10]	[11]	[16]
Component A	Fastrack 53	(1)	366.0	366.0	366.0
	Foamaster MO 2134	(2)	2.4	2.4	2.4
	AS 238 NF	(3)	8.2	8.2	8.2
Component B	Tioxide TR92	(4)	77.0	77.0	67.0
	Calcitec V40S	(5)	342.0	342.0	342.0
	SILLITIN Z 89	(6)	122.0	---	---
	SILFIT Z 91	(6)	---	122.0	128.0
Component C	Triton X-405)*	(1)	2.9	2.9	2.9
Component D	Ethanol		11.8	11.8	11.8
	Foamaster MO 2134	(2)	0.3	0.3	0.3
	Deionized water		18.1	18.1	18.1
Component E	Texanol	(7)	38.0	38.0	38.0
Total parts by weight			988.7	988.7	984.7
)* Triton X-405 is no longer available Recommended: Tergitol 15-S-40 (70 %)			(1)		
Deionized water for dilution to application viscosity (flow time approx. 15 s in 6 mm DIN flow cup)			39.6	22.7	20.7
Total parts by weight, diluted			1028.3	1011.4	1005.4

Recommendation cost-effective by reduced titanium dioxide content

- [10] high spreading rate
- [11] color-neutral
- [16] color-neutral and fast drying

Mixing

- charge component A and stir in component B
- add component C drop by drop
- pre-mix and add component D
- complete by component E
- disperse by dissolver at 3.1 m/s for 10 min
- adjust flow time by deionized water to 15 s (6 mm DIN flow cup)



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Technical Data	Fineness of grind	µm	15-20	15-20	15-20
	Solids content by volume, prior to dilution	Vol-%	60.5	60.5	60.5
	Solids content by volume, diluted	Vol-%	56.9	58.4	58.6
Properties	Viscosity at 100 s ⁻¹ , undiluted	mPa·s	1580	760	750
	Viscosity at 100 s ⁻¹ , after dilution	mPa·s	380	340	350
	Drying stage 4 acc. to DIN 53150	min	117	115	101
	600 µm wet film thickness				
	Abrasion loss	mg	240	232	245
	ASTM D 4060-01: CS 17, 1 kg, 1000 rev.				
	Color				
	geometry 45/0, 250-270 µm dry film thickness				
	L*		93.65	94.06	93.78
	a*		-0.06	-0.39	-0.32
	b*		6.77	4.35	4.43
	Chromaticity coordinate x (DIN EN 1436))*		0.3257	0.3209	0.3212
	Chromaticity coordinate y (DIN EN 1436))*		0.3437	0.3393	0.3395
) * <u>key data limiting the color space for white road marking paints acc. to DIN EN 1436</u>					
		1	2	3	4
x		0.355	0.305	0.285	0.335
y		0.355	0.305	0.325	0.375
Dry film thickness for contrast ratio = 98 %	µm	131	140	147	
Wet film thickness for contrast ratio = 98 %	µm	230	240	251	
Calculated spreading rate	m ² /l	4.3	4.2	4.0	
Calculated spreading rate	m ² /kg	2.8	2.7	2.6	
Suppliers	(1)	Dow Chemical Company			
	(2)	BASF			
	(3)	Lefrant-Rubco S.A.			
	(4)	Huntsman Pigments			
	(5)	Mineraria Sacilese			
	(6)	HOFFMANN MINERAL			
	(7)	Eastman Chemical Company			

More information on this topic:

[Neuburg Siliceous Earth in Road Marking Paints, Water-based, White, Low Film Thickness](#)

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