

Industrial coating 2K polyurethane topcoat, high solid, white agricultural, construction and earthmoving sector (ACE)

Basis	Polyurethane				
	Guide Formulation of BASF		16063MS		
Component A	Basonol HPE 1170 B	(1)	26.77		
	Sovermol 780	(1)	18.74		
	Efka FA 4609	(1)	2.81		
	Efka PB 2744	(1)	1.87		
	Efka SL 3777	(1)	2.95		
	AKTIFIT PF 111	(2)	4.69		
	Kronos 2310	(3)	42.17		
	Total parts by weight		100.00		
Component B	Basonat HI 2000 NG	(1)	48.27		
Note	Rheology profile is not optimized. Based on film thickness requirement, a modification with additional additives is necessary. Improving weathering performance (add on resin solid): 2 % Tinuvin 292 HP (HALS) and 1 % Tinuvin 400 (UV)				
Mixing Component A	- add ingredients of component A in the listed	d order while stirring with e	efficient agitation		
Completion	 - add component B with efficient agitation – 5 min at 1000 rpm - adjust to the favored viscosity with n-butyl acetate/xylene (2:3) 				
Process parameters	- SATA Jet 5000B HVLP, nozzle 1.5, 1.8 bar - flow time DIN 4 cup adjusted to 50 s				
Suppliers	 BASF HOFFMANN MINERAL Kronos International 				



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Technical Data

Properties



16063MS

Amount of solvent needed to adjust	a	18.2
Viscosity (flow time DIN 4 cup)	S	approx, 50
Viscosity doubling $50 \rightarrow 100 \text{ s}$	-	within 2 h
Solids content	%	approx. 83
VOC	g/I	approx. 229
without catalyst		
Drying time @ 23 °C		
Sand drying	h	12
Through drying	h	15.5
Pendulum hardness @ 23 °C		approx.
after 24 h		20
after 48 h		70
after 72 h		78
after 144 h		80
after 168 h	OSC	79
+15 h @ 60 °C		78
on glass		
15 h @ 60		99
		94
20 min @ 140 °C		108
Gloss, on Gardobond 26S 60 OC		
20°, after 15 h @ 60 °C	GU	79.2

Formulation (A+B), viscosity adjusted with n-butyl acetate/xylene (2:3)

60°, after 15 h @ 60 °C

GU



90.5



16063MS

Chemical resistance			
15 h @ 60 °C, on metal substrate	direct	after 24 h	
Diesel	15 h	0	0
Bio-Diesel	15 h	0	0
Hydraulic oil	15 h	0	0
Lube oil	15 h	0	0
Bio-Lube oil	15 h	0	0
Brake fluid	4 h	5	3
Radiator antifreeze	4 h	0	0
Hydrochloric acid 10 %	15 h	1	0
Sulfuric acid 40 %	15 h	0	0
Sodium hydroxide 25 %	15 h	0	0
Sodium phosphate 10 %	15 h	1	0
Tar remover	15 h	4	3

Note: the resistance against brake fluid and tar remover can be improved by using AKTIFIT AM in higher dosage





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