Technical Data Sheet

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Data sheet Nr. 5391

AVKOTE Universal

Product descrip	tion	A one coat, no primer general purpose 74% high solids coating for industrial metals and plastics.				
Binding Agent		Polyurethane / Acrylic Combination resin				
Areas of Applica	ation	A high-quality top-coat for Metal and PVCu surfaces.				
Form of Supply	Colours	RAL and BS colour cards Other Colours available on request				
	Gloss Level	60% Satin (Universal G60) 90% Gloss (Universal G90)				
Hardener		Avkote Hardener 279				
Packing	Coating Hardener	1, 3 and 5 Litre disposable containers 1 Litre disposable containers				

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The data is valid for Avkote Universal white 80. The values can change for other colours.								
	Coating		Hardener			Mixture		
Specific Gravity (23 °C)	1.5 g/cm ³		1.0 g/cm ³		1.4 g/cm ³		i	
Solids content	74 ± 2 Weight-%		45	± 2	Weight-%	Appr	68	Weight-%
Organic Solvent Content.	26 ± 2 Weight-%		55	± 2	Weight-%	Appr	32	Weight-%
VOC Content (CH / EU)	37.5 % 375 g/lt		53	%	530 g/lt	41	%	417 g/lt
Shelf life at 20 °C	12 Months 6 Months in well shut containers							
Theoretical Coverage	115 g/m ² 8.5 m ² /kg for 60 µm dry layer thickness							

Safety Data	Coating		Hardener	
Flash point	30 °C		0 °C	
Transport ADR/RID	Class: 3	VP: III	Class: 3	VP: III
Poison classification (EU)				
VVS disposal code (EU/CH)	08, 08 01, 08 01 11		08, 08 01, 08 01 11	

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Application Recommendations

Substrate	No. of Coats	Product	Dry Film thickness	Data sheet	
PVCu (PVC-Profiles) & GRP	2 x Top Coat	Avkote Universal	40 - 60 µm	5391	
Other Plastics	Please refer to	our technical department.	·		
Aluminium and galvanised	1 x Primer	Avkote 2250 Primer	30 - 40 µm	EA9000	
substrate	1 x Top Coat	Avkote Universal	40 - 60 µm	5391	
	2 x Top Coat	Avkote Universal	60 - 100 µm	5391	
Steel	2 x Top Coat	Avkote Universal	60 - 100 µm	5391	
Old coats of paint (solvent- resistant)	2 x Top Coat	Avkote Universal	60 - 80 µm	5391	
Old and New Curtain Sided trucks made from flexible plastic		Clean well with 154 Cleaner Avkote Universal – Spray, brush or roll application.	40 - 60 µm	5391	
	For further application proposals please ask our technical department.				

Pre	paration
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T	Substrate	Every substrate must be thoroughly cleaned, grease and oil-free, and dry before paint application commences.				
	PVCu (PVC- Profiles)	Clean with Avkote 153b Cleaner first then with Avkote 154 Cleaner. Apply Avkote Universal.				
	GRP	Clean with Avkote 154 Cleaner. Apply Avkote Universal.				
	Other Plastics	Please refer to our technical department.				
	Aluminium and galvanised substrate	Ensure metal is clean and grease free. Scotch brite surface. Clean with 154 Cleaner and apply Avkote Universal Top coat.				
	Steel	Scotch brite surface. Clean with 154 Cleaner and apply Avkote Universal.				
	Old coats of paint (solvent-resistant)	Sand off, clean, primer as necessary.				

Proces	ssing					
	Preventative measuresWe recommend the wearing of protective clothing even if not stipulated by law The national and regional health and safety regulations for work hygiene and equipment are to be observed. Pay attention to our safety data sheet Nos. 539100 and 279H00.					
Ĩ	Stir	Before use ensure contents are stirred together well with hardener if applicable.				
	Mixing Ratio	4 : 1 by volume with Avkote 279 hardener				
	Pot life at 20 °C	Minimum 8 hr. according to tone				
S	Thinners	Dilute with thinners 95 (slow) or 13000 (fast) to application viscosity according to the table shown below.				

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	brush	Original Viscosity.	Original Viscosity. But if required Add 5% 550 thinners.						
	Roll	Original Viscosity.	Driginal Viscosity. But if required Add 5% 550 thinners.						
		Viscosity DIN-4	/iscosity DIN-4 Thinners Nozzle Pressure Sp						
> 1	Gravity Feed Spray-gun	18 - 24 secs	10 % 95 Thinners	2 – 2.2 mm	3 - 4 bar	2			
	Suction-spray-gun	18 – 24 secs	18 – 24 secs 10 % 95 Thinners 2 – 2.2 mm 3			2			
	Airless-(Airmix)- Spray	20 - 26" secs	5-10 % 95 Thinners	06-09	3 – 4 bar	1 - 2			
HVLP	HVLP paint gun	18 – 24 secs	10 % 95 Thinners	2 – 2.2 mm	3 - 4 bar	2			
<u>}</u> ;;;;;	Evaporation time	Prior to drying at temperatures over 40 °C allow an evaporation time of 15 minutes.							
	Drying time	For 50 μ m dry coating at 65 % of relative humidity							
	At 20 °C	Tack-Dry	6	after: 30	Minutes				
		Touch – Dry	a	after: 2-3	Hours				
		Dried (Can be sand	ded) a	after: 24	Hours				
		Suitable for re-coa	ting a	after: 24	Hours				
		Completely Dry	â	after: 10	days				

Important references					
Specific restrictions	Rela	Relative humidity max. 80 %			
Minimum application- and drying temperature	5 °C Do not apply at temperatures below the dew point				
Coating removal	Sand blast and/or paint stripper				
Equipment cleaning	Clean immediately after use with Gun Wash Thinners.				

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Avko Ltd, Hamble Court Business Park, Hamble Lane, Hamble, SO31 4QJ Tel.: +44 (0)23 80 455 855, Fax: +44 (0)23 80 456 785