

Technical Data Sheet



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Data sheet Nr. 5391

AVKOTE Universal

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

Technical Data

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
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/lit	53	%
			530	g/lit	41	%
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	27 °C	27 °C
Transport ADR/RID	Class: 3 VP: III	Class: 3 VP: III
Poison classification (EU)	4 BAG T No: 619004	Free BAGT No.: 614300
VVS disposal code (EU/CH)	080111	080111



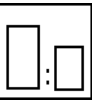
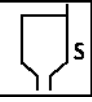

Application Recommendations








Substrate	No. of Coats	Product	Dry Film thickness	Data sheet
PVCu (PVC-Profiles) & GRP	1 x Top Coat	Avkote Universal	30-50 µm	5391
Other Plastics		Please refer to our technical department.		
Aluminium and galvanised substrate	1 x Top Coat	Avkote Universal	30 - 50 µm	5391
Steel	1 x Top Coat	Avkote Universal	30 - 50 µm	5391
Old coats of paint (solvent-resistant)	1 x Top Coat	Avkote Universal	30 - 50 µm	5391
Old and New Curtain Sided trucks made from flexible plastic	1 x 154 Cleaner 1 x Top Coat	Clean well with 154 Cleaner Avkote Universal – Spray, brush or roll application.	30 - 50 µm	5391
For further application proposals please ask our technical department.				

Preparation

	Substrate	Every substrate must be thoroughly cleaned, grease and oil-free, and dry before paint application commences.
	PVCu (PVC-Profiles) & GRP	Clean with Avkote 153b Cleaner first then 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.

Processing

	Preventative measures	We 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.
	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
	Thinners	Dilute with thinners 95 (slow) or 13000 (fast) to application viscosity according to the table shown below.
	brush	Add 5% 550 thinners if required

	Roll	Add 5% 550 thinners if required				
		Viscosity DIN-4	Thinners	Nozzle	Pressure	Spray coats
	Gravity Feed Spray-gun	18 - 24 secs	10 % 95 Thinners	2 – 2.2 mm	3 - 4 bar	2
	Suction-spray-gun	18 – 24 secs	10 % 95 Thinners	2 – 2.2 mm	3 - 4 bar	2
	Airless-(Airmix)-Spray	20 - 26" secs	5-10 % 95 Thinners	06-09	3 – 4 bar	1 - 2
	HVLP paint gun					
	Evaporation time	Prior to drying at temperatures over 40 °C allow an evaporation time of 15 minutes.				
	Drying time	For 50 µm dry coating at 65 % of relative humidity				
	At 20 °C	Tack-Dry	after:	30	Minutes	
		Touch – Dry	after:	4-5	Hours	
		Dried (Can be sanded)	after:	24	Hours	
		Suitable for re-coating	after:	24	Hours	
		Completely Dry	after:	10	days	
	At 80 °C	Dry	after:		Minutes	
	At 100 °C	Dry	after:		Minutes	

Important references

Specific restrictions	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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