Technical Data Sheet

Edition dated: 13.08.07

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Data sheet Nr. W3990

AVKOTE SM

Product descrip	tion	A solvent based 2K varnish with an elegant interior surface finish and easy application over open pore and closed pore woods.				
Binding Agent		Polyurethane resin				
Areas of Application		High-quality varnish for interior wood used in furniture manufacture and general joinery woodwork. Can be used as a finishing varnish over painted surfaces to achieve a high quality surface. It is peroxide resistant when coating bleached woods.				
		Test standard compliance: DIN 68861 Part 1B (Chemical Resistance)				
		DIN 4102 B1 (low Flammability)				
		DIN EN 71-3 (Migration behaviour)				
Form of Supply	Colours	Clear				
Gloss Level		Matt Matt – G3%; Dull Matt – G6%; Matt – G15%; Satin Matt – G25%; Satin – G35%; Satin Gloss – G50%; Gloss – G67%				
Hardener	<u> </u>	Avkote Hardener 279				
Packing	Coating	1 and 5 Litre disposable containers				
	Hardener	1 Litre disposable containers				

Technical Data

The data is valid for Avkote SM. The values can change for other gloss levels.									
	Coating			Hardener			Mixture		
Specific Gravity (23 °C)	0.94	g/cm ³	1	0.99	g/cm³		0.96 g/c	m³	
Solids content	23	± 1	Weight-%	45	± 1	Weight-%	Appr 25	Weight-%	
Organic Solvent Content.	77	± 2	Weight-%	55	± 1	Weight-%	Appr 75	Weight-%	
VOC Content (CH / EU)	73	%	730 g/lt	54.7	%	547 g/lt	71.3 %	713 g/lt	
Shelf life at 20 ℃	12 Months 6 Months in well shut containers				ers				
Theoretical Coverage	120 g/m² 7-8 m²/kg for 28 μm dry layer thickness								

Safety Data	Coating		Harden	er	
Flash point	0 ℃		0 ℃		
Transport ADR/RID	Class: 3	VP: II	Class:	3	VP: III
Poison classification (EU)					
VVS disposal code (EU/CH)	08, 08 01, 08 01 11		08, 08 01,	, 08 01 11	

Application Recommendations

Substrate	No. of Coats	Product	Dry Film thickness	Data sheet	
Open Pore Wood	1 x Stain	Aqaukote Stain (if required)		8650	
	1 x Varnish	Avkote SM	30 - 40μm	W3990	
		Intermediate sanding with grade 220-280			
	1 x Top Coat	Avkote SM	30 - 40μm	W3990	
Closed Pore Wood	1 x Stain	Aquakote Stain (if required)		8650	
	1 x Varnish	Avkote SM	30 - 40μm	W3990	
		Intermediate sanding with grade 280-320			
	1 x Top Coat	Avkote SM	30 - 40μm	W3990	
	Please contact our technical staff for further application suggestions.				

Preparation

Substrate	Every substrate must be thoroughly cleaned, grease and oil-free, and dry before paint application commences.
	Apply Avkote SM to freshly sanded substrates.
Wood substrates	Sand with 150 – 180 grit sand paper
Bare MDF Substrate	Sand with 180 – 220 grit sand paper
Plain MDF Panels	Sand with 180 – 220 grit sand paper
MDF	Primed edges/Routered edges - seal with Avkote 207 Sealer or Aquakote MT.
Special Tropical Woods	Prime edge and surfaces with 1 x 207 Sealer Primer.

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Proces	cina							
Proces	sing							
	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. W39900 and 279H00.						
	Stir	Before use ensure contents are stirred together well with hardener if applicable.						
	Mixing Ratio	10 : 1 by volume with Avkote 279 hardener						
	Pot life at 20 °C	Ideally 8 Hrs. Max 4	8 Hrs but with	increasingly	y rec	luced quality	/.	
S	Thinners	Dilute with Avkote 13	3000 Thinners	0–20 % de	pen	ding on the a	application.	
	brush	Not recommended						
	Roll	Not recommended	Not recommended					
		Viscosity DIN-4	Thinners	Nozzle	F	Pressure	Spray coats	
>1 / C	Gravity Feed Spray-gun	33 - 38 secs	0 - 20 %	1.8 mm	2	2 – 3 bar	2	
***	Suction-spray-gun	33 - 38 secs	0 - 20 %	1.8 mm	2	2 – 3 bar	2	
00	Airless-(Airmix)- Spray	33 - 38 secs	0 - 20 %	11/40		3 – 4 bar omising air 1.5 - 2	2	
HVLP	HVLP paint gun	33-38 s 0-20 %		1.8 mm		2-3 bar	2	
\ ₁ \ ₁ \	Evaporation time	Prior to drying at temperatures over 40 °C allow an evaporation time of 20 minutes.				on time of 20		
	Drying time	For 28 µm dry coating at 20 ℃ and 65% of relative humidity						
	At 20 ℃	Tack-Dry		after:	15	Minutes		
		Touch – Dry		after:	30	Minutes	Primary Coat	
		Dried (Can be sanded)		after:	3	Hour	,	
		Suitable for re-coatir	•	after:	3	Hours		
		Completely Dry	· ·	after:	10	days		
	At 40 ℃	Dry		after:	45	Minutes		

Important references							
Specific restrictions	Do not dispose of varnish residue into the sewage system.						
Minimum application- and drying temperature		Do not apply at temperatures below the dew point					
Coating removal	With paint stripper						
Equipment cleaning	Clean immediately after use with Avkote Gun Wash Thinners.						

Important Recommendations						
	Please observe our Material Safety Data Sheets for all products used as well as the instructions on the tin label.					

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