

# Technical Data Sheet



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Data sheet Nr. 2580

## AQUAKOTE MT

<b>Product description</b>	A 1K or 2K clear, waterbased wood varnish that is elastic yet non tacky. This varnish has good wear, water and alcohol resistance.
<b>Binding Agent</b>	Polyurethane Acrylic Combination
<b>Areas of Application</b>	As an undercoat and/or top coat varnish for high value interior wood surfaces in commercial kitchens, restaurants etc. With the use of the 3959 hardener this coating has high scratch resistance and sealing effect on oak and other high resin content woods.
<b>Form of Supply</b> Colours	Clear
Gloss Level	Dull Matt – G10%; Matt – G15%; Silk– G30%; Gloss – G50%
<b>Hardener:</b>	W3959 Hardener
<b>Packing</b> Varnish	1 and 5 Litre disposable containers
Hardener	1 Litre disposable containers

### Technical Data

The data is valid for Avkote MT matt. The values can change for other gloss levels.


	Coating		Hardener		Mixture	
<b>Specific Gravity (23 °C)</b>	1.04	g/cm <sup>3</sup>	1.06	g/cm <sup>3</sup>	g/cm <sup>3</sup>	
<b>Solids content</b>	33	± 1 Weight-%	70	± 1 Weight-%	Appr	Weight-%
<b>Organic Solvent Content.</b>	5	± 1 Weight-%	30	± 1 Weight-%	Appr	Weight-%
<b>VOC Content (CH / EU)</b>	0.56	%	56	g/lt	%	g/lt
<b>Shelf life at 20 °C</b>	6 Months		6 Months in well shut containers			
<b>Theoretical Coverage</b>	150 g/m <sup>2</sup> 6-7 m <sup>2</sup> /kg for		38 µm dry layer thickness			













Safety Data	Coating	Hardener
<b>Flash point</b>	N/A	65 °C
<b>Transport ADR/RID</b>	Class: - VP: -	Class: - VP: -
<b>VVS disposal code (EU/CH)</b>	08, 08 01, 08 01 16	08, 08 01, 08 01 11

**Application Recommendations**

Substrate	No. of Coats	Product	Dry Film thickness	Data sheet
MDF with PU Resin Base <small>(Not for use with formaldehyde based MDF)</small>  For increased wear protection	1-2 x Filler	Aquakote 247 Filler Primer  Sand between coats	40 - 60µm	7430
	1 x Top Coat	Aquakote MT	40 - 60µm	2580
	1 x Lacquer	Aquakote CR	40 - 60µm	W3955
Beech, Maple and Coniferous woods  For increased wear protection	1-2 x Top Coat	Aquakote MT	40 - 60µm	2580
	1 x Lacquer	Aquakote CR	40 - 60µm	W3955
Oak  For increased wear protection	2 x Top Coat	Aquakote MT with 5% 3959 Hardener	40 - 60µm	2580
	1 x Lacquer	Aquakote CR	40 - 60µm	W3955
Beech, Maple, Cherry, Erle, MDF & Walnut	1-2 x Varnish	Aquakote MT  Dry for about 2 hours  Intermediate sanding with grade 220 grit	50 - 70µm	2580
	1-2 x Top Coat	Aquakote MT	50 - 70µm	2580
MDF	Aquakote MT can be used to seal top face and open edges. On coniferous woods there is a slightly yellowish tint. On Oak a test prior to application is necessary. For further application proposals please ask our technical department.			

**Preparation**

	<b>Substrate</b>	Every substrate must be thoroughly cleaned, grease and oil-free, and dry before paint application commences.
	Beech, Maple, Cherry, Erle, MDF & Walnut	Apply the paint to freshly sanded surfaces only.  <b>IMPORTANT:</b> Always carry out a spot test. This is especially important with Oak, American Cherry and MDF.  <b>We take no responsibility for substrates which have not been tested in our laboratory.</b>

Processing						
	<b>Preventative measures</b>	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. 2580 and W3959H.				
	<b>Stir</b>	Before ensure contents are stirred together well before use.				
	<b>Mixing Ratio</b>	Use 20:1 for high chemical resistance: Pot life 1 – 2 Hrs Use 10:1 for good cream resistance: Pot life 3 – 4 Hrs				
	<b>Pot life at 20 °C</b>	Between 2-4 Hrs depending on application.				
	<b>Thinners</b>	Water				
	<b>brush</b>	Use brushing additive 3953 3-5%				
	<b>Roll</b>	Use brushing additive 3953 3-5%				
		<b>Viscosity DIN-4</b>	<b>Thinners</b>	<b>Nozzle</b>	<b>Pressure</b>	<b>Spray coats</b>
	<b>Gravity Feed Spray-gun</b>	30 – 34 secs	Water	1.8 - 2 mm	3 - 4 bar	2-3
	<b>Suction-spray-gun</b>	30 – 34 secs	Water	1.8 - 2 mm	3 - 4 bar	2-3
	<b>Airless-(Airmix)-Spray</b>	30 – 34 secs	Water	011-013	4-4.5	2
	<b>HVLP paint gun</b>	30 – 34 secs	Water	1.8 - 2 mm	3 - 4 bar	2-3
	<b>Evaporation time</b>	Prior to drying at temperatures over 40°C, allow an evaporation time of 5 minutes.				
	<b>Drying time</b>	For 38 µm dry coating at 65% relative humidity:				
	At 20 °C	Tack-Dry	after:	20	Minutes	
		Touch – Dry	after:	40	Minutes	
		Dried (Can be sanded)	after:	1	Hour	
		Suitable for re-coating	after:	2	Hours	
		Completely Dry	after:	7	days	
	At 50 °C	Can be stacked	after:	6	Minutes	

**Important references**

<b>Specific restrictions</b>	Relative humidity max. 80%		
<b>Minimum application- and drying temperature</b>	15	°C	Do not apply at temperatures below the dew point
<b>Coating removal</b>	With paint stripper		
<b>Equipment cleaning</b>	Clean immediately after use with water.		

**Important Recommendations**

<b>Special Notes</b>	<b>Please note:</b> Cherry Veneer cannot satisfactory be protected from colour change from sunlight. We cannot guarantee how long the Cherry Veneer will last before colour change starts. The same principle stands for a wood called SIPO, although the colour change is not as extreme.
<b>Storage: Frost Warning</b>	This product is waterbased and therefore <b>MUST NOT</b> be subjected to temperatures below 0 °C either during storage or application. If this does happen the product will become unusable.
<b>Spot testing</b>	Depending on the type of wood we would always recommend spot testing.
<b>Safety Data Sheets</b>	Please observe our Material Safety Data Sheets for all products used as well as the instructions on the tin label.
<b>Module System</b>	Avko have a number of additives available: 1. Additive for stairs : 3951 Anti-slip (add 5%) 2. Additive for problem woods : 3952 Anti foam agent (add 0.5 - 1%) 3. Additive for special climatic conditions : 3953 Retarder (add 2 - 5%)

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