

# Technical Data Sheet



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Data sheet Nr. W3955

## AQUAKOTE CR

<b>Product description</b>	A waterbased 1K non yellowing clear varnish that is elastic yet non tacky. This varnish has effective brightening characteristics, light protection and a high level of surface hardening. The coating can be air, catalytic or oven dried.
<b>Binding Agent</b>	Polyurethane Acrylic Resin
<b>Areas of Application</b>	High-quality varnish for interior wood used in furniture manufacture and general joinery woodwork. The varnish can be left as a base only application. Test standard compliance: DIN 68861 Part 1B (Chemical Resistance) DIN 4102 B1 (low Flammability) DIN EN 71-3 (Migration behaviour)
<b>Form of Supply</b> Colours	Clear
Gloss Level	Dull Matt – G10%, Matt – G15%, Satin – G30%
<b>Packing</b> Varnish	1 and 5 Litre disposable containers

### Technical Data

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


	Coating		Hardener		Mixture	
<b>Specific Gravity (23 °C)</b>	1.02	g/cm <sup>3</sup>		g/cm <sup>3</sup>		g/cm <sup>3</sup>
<b>Solids content</b>	35	± 1 Weight-%	±	Weight-%	Appr	Weight-%
<b>Organic Solvent Content.</b>	5	± 1 Weight-%	±	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>	110 g/m <sup>2</sup>		8 m <sup>2</sup> /kg for		38 µm dry layer thickness	



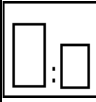
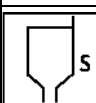








Safety Data	Coating	Hardener
<b>Flash point</b>	N/A	°C
<b>Transport ADR/RID</b>	Class: - VP: -	Class: VP:
<b>VVS disposal code (EU/CH)</b>	08, 08 01, 08 01 16	

**Application Recommendations**

Substrate	No. of Coats	Product	Dry Film thickness	Data sheet
Open Pore Wood	1 x Varnish	Aquakote CR Intermediate sanding with grade 220-280	40 - 60µm	W3955
	1 x Top Coat	Aquakote CR	40 - 60µm	W3955
Closed Pore Wood	1 x Stain	Aquakote CR Intermediate sanding with grade 220-280	40 - 60µm	W3955
	1 x Top Coat	Aquakote CR	40 - 60µm	W3955
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.
	Wood, Bare and MDF Substrates	Apply the paint to freshly sanded surfaces only. Sand with 180 – 220 grain paper.  <b>IMPORTANT:</b> Always carry out a spot test. This is especially important with Oak, American Cherry and MDF.

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. W395000.				
	<b>Stir</b>	Before use ensure contents are stirred thoroughly before use.				
	<b>Mixing Ratio</b>	N/A				
	<b>Pot life at 20 °C</b>	approx. 24 Hrs.				
	<b>Thinners</b>	Water				
	<b>brush</b>	Add 3-5% additive 3953 before brush application.				
	<b>Roll</b>	Add 3-5% additive 3953 before rolling.				
		<b>Viscosity DIN-4</b>	<b>Thinners</b>	<b>Nozzle</b>	<b>Pressure</b>	<b>Spray coats</b>
	<b>Gravity Feed Spray-gun</b>	33 - 36 secs	Water	1.8 - 2 mm	2 - 3 bar	2
	<b>Suction-spray-gun</b>	33 - 36 secs	Water	1.8 - 2 mm	2 - 3 bar	2
	<b>Airless-(Airmix)-Spray</b>	33 - 36 secs	Water	11/50 or 9/50	3 – 4 bar Atomising air 1.5 bar	2
	<b>HVLP paint gun</b>	33 - 36 secs	Water	1.8 - 2 mm	2 - 3 bar	2
	<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	Primary Coat
		Dried (Can be sanded)	after:	2	Hour	
		Suitable for re-coating	after:	2	Hours	
		Completely Dry	after:	10	days	

**Important references**

<b>Special Notes</b>	Aquakote CR does not present a fire hazard. Do not dispose of paint residue into the sewage system.		
<b>Minimum application- and drying temperature</b>	18	°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; with thinner after longer periods.		

**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 problem woods : 3952 Anti Foam agent (add 0.5 – 1%) 2. Additive for special climatic conditions : 3953 Retarder (add 2 – 5%)

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