

Technical Data Sheet



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Data sheet Nr. W3950

AQUAKOTE CT

Product description	A waterbased coloured top coat with good coverage. The coating can be air, catalytic or oven dried and can be used as a 1K or 2K coating. The coating can be used as a base or left as a top coat. The addition of 5% hardener creates a very effective sealing effect on oak, MDF and other woods with out the pigment or resin bleeding through.
Binding Agent	A 1K or 2K Polyurethane Acrylic Resin
Areas of Application	High-quality top-coat for interior wood used in furniture manufacture and general joinery wood work. Test standard compliance: DIN 4102 B1 (low Flammability); DIN EN 71-3 (Migration behaviour) Can be painted over with Aquakote CR for extra surface protection.
Form of Supply	Colours RAL colour card Other Colours available on request Gloss Level Satin Matt
Hardener	Avkote 3959 Hardener
Packing	Coating 1 and 5 Litre disposable containers Hardener 0.5 - 1 Litre disposable containers

Technical Data


The data is valid for Aquakote CT white 80. The values can change for other colours.							
	Coating			Hardener		Mixture	
Specific Gravity (23 °C)	1.15	g/cm ³		1.07	g/cm ³		1.14 g/cm ³
Solids content	47	± 1	Weight-%	70	±	Weight-%	Appr 48 Weight-%
Organic Solvent Content.	5	± 1	Weight-%	30	±	Weight-%	Appr 6 Weight-%
VOC Content (CH / EU)	6.4	%	64 g/lt	32	%	320 g/lt	7.7 % 77 g/lt
Shelf life at 20 °C	6 Months			6 Months in well shut containers			
Theoretical Coverage	120 g/m ² 7-8 m ² /kg for 55 µm dry layer thickness						

Safety Data	Coating	Hardener
Flash point	0 °C	65 °C
Transport ADR/RID	Class: - VP: -	Class: - VP: -
VVS disposal code (EU/CH)	08, 08 01, 08 01 16	08, 08 01, 08 01 11




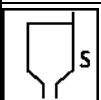

Application Recommendations








Substrate	No. of Coats	Product	Dry Film thickness	Data sheet
MDF For increased wear protection	1 x Sealer	Avkote 207 Sealer	30 - 40µm	5409
	1 x Filler	Aquakote 247 Filler Primer Intermediate Sanding		7430
	1-2 x Top Coat	Aquakote CT	30 - 40µm	W3950
	1 x Lacquer	Aquakote CR	30 - 40µm	W3955
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	30 - 40µm	7430
	1 x Top Coat	Aquakote CT	30 - 40µm	W3950
	1 x Lacquer	Aquakote CR	30 - 40µm	W3955
Beech, Maple and Coniferous woods For increased wear protection	1-2 x Top Coat	Aquakote CT	30 - 40µm	W3950
	1 x Lacquer	Aquakote CR	30 - 40µm	W3955
Oak For increased wear protection	2 x Top Coat	Aquakote CT with 5% 3959 Hardener	30 - 40µm	W3950
	1 x Lacquer	Aquakote CR	30 - 40µm	W3955
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.
	Wood, Bare and MDF Substrates	Apply the paint to freshly sanded surfaces only. Sand with 180 – 220 grain paper.

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. W39500 and W3959H.
	Stir	Before use ensure contents are stirred together well with hardener if applicable. The hardener MUST be mechanically mixed in for 5 mins.
	Mixing Ratio	20 : 1 by volume with 3959 hardener for very high chemical resistance.
	Pot life at 20 °C	approx. 3 Hrs.
	Thinners	Water
	brush	Limited to small parts and mouldings only.

	Roll	No				
		Viscosity DIN-4	Thinners	Nozzle	Pressure	Spray coats
	Gravity Feed Spray-gun	35 - 42 secs	Water	1.8 - 2 mm	2 - 3 bar	2
	Suction-spray-gun	35 - 42 secs	Water	1.8 - 2 mm	2 - 3 bar	2
	Airless-(Airmix)-Spray	35 - 42 secs	Water	11/50 or 9/50	3 – 4 bar Atomising air 1.5 bar	2
	HVLP paint gun	35 - 42 secs	Water	1.8 - 2 mm	2 - 3 bar	2
	Evaporation time	Prior to drying at temperatures over 40 °C allow an evaporation time of 5 minutes.				
	Drying time	For 55 µm dry coating at 23°C and 65 % of relative humidity				
	At 20 °C	Tack-Dry	after:	20	Minutes	
		Touch – Dry	after:	40	Minutes	Primary Coat
		Dried (Can be sanded)	after:	2	Hours	
		Suitable for re-coating	after:	2	Hours	
		Completely Dry	after:	10	days	

Important references

Special Notes	Aquakote CT does not present a fire hazard. Do not dispose of paint residue into the sewage system. The pot life is drastically reduced at temperatures above 25°C. This particularly applies for airless spray devices.		
Minimum application- and drying temperature	18	°C	Do not apply at temperatures below the dew point
Coating removal	Sand blast and/or paint stripper		
Equipment cleaning	Wash immediately with water after use. Use General gun wash thinners after longer periods.		

Important Recommendations

Storage: Frost Warning	This product is waterbased and therefore MUST NOT be subjected to temperatures below 0 °C either during storage or application. If this does happen the product will become unusable.
Spot testing	Depending on the type of wood we would always recommend spot testing.
Safety Data Sheets	Please observe our Material Safety Data Sheets for all products used as well as the instructions on the tin label.
Module System	Avko have a number of additives available: 1. Additive for problem woods : 3952 Anit Foam agent (add 0.5 – 1%) 2. Additive for special climatic conditions : 3953 Retarder (add 2 – 5%)

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