

Technical Data Sheet



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Data sheet Nr. 5521

AVKOTE DP Lacquer

Product description	Two-component, fast-drying clear varnish with good filling quality and very good chemical, mechanical and weather resistance. Meets Decopaint Guideline Level 2. Chemical resistance according to DIN 68861, 1B.
Binding Agent	2-K polyurethane resin
Areas of Application	High quality top coat for: - Windows and doors made of PVC and Plastics
Form of Supply Colours	Clear
Gloss Level	Satin Gloss (gloss levels 30 - 40 at 60°)
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 DP Lacquer.


	Coating		Hardener		Mixture		
Specific Gravity (23 °C)	1.01	g/cm ³	1.0	g/cm ³	1.00	g/cm ³	
Solids content	56	± 2 Weight-%	46	± 2 Weight-%	Appr 54	Weight-%	
Organic Solvent Content.	44	± 2 Weight-%	54	± 2 Weight-%	Appr 46	Weight-%	
VOC Content (CH / EU)		%	453	g/l	%	560	g/l
Shelf life at 20 °C	12 Months		6 Months in well shut containers				
Theoretical Coverage	88	g/m ²	11.3	m ² /kg for	30	µm dry layer thickness	

Safety Data	Coating	Hardener
Flash point	27 °C	0 °C
Transport ADR/RID	Class: 3 VP: III	Class: 3 VP: III
Poison classification (EU)		
VVS disposal code (EU/CH)	08, 08 01, 08 01 11	08, 08 01, 08 01 11



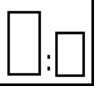
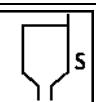


Application Recommendations







Substrate	No. of Coats	Product	Dry Film thickness	Data sheet
PVCu (PVC-Profiles & Doors)	1-2 x Top Coat	Avkote DP	50-70 µm	5520
	1 x Lacquer	Avkote DP Lacquer	50-70 µm	5521
GRP	1-2 x Top Coat	Avkote DP	50-70 µm	5520
	1 x Lacquer	Avkote DP Lacquer	50-70 µm	5521
Note:	The base coat needs to flash off so that there are no visible wet areas before Avkote DP lacquer can be applied. Time will depend upon temperature, thickness and humidity. Usually 10-20 minutes.			
Note:	For Colours with poor weather-fastness (See Data Sheet No. 2518) we recommend a top coat of Avkote DP Lacquer to be applied.			
	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 & Doors)	Clean with 153b cleaner first then with Avkote 154 Cleaner. Apply Avkote DP. Allow the base coat to flash off so that there are no visible wet areas before applying Avkote DP lacquer.
	Other Plastics	Please refer to our technical department.
	GRP	Clean with Avkote 154 Cleaner. Apply Avkote DP. Allow the base coat to flash off so that there are no visible wet areas before applying Avkote DP lacquer.
	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. 552000 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	Approx 3 hr. according to tone
	Thinners	Dilute with thinners 95 (slow) or 13000 (fast) to application viscosity according to the table shown below.
	brush	Not recommended. If necessary only on small surfaces.
	Roll	Not recommended

		Viscosity DIN-4	Thinners	Nozzle	Pressure	Spray coats
	Gravity Feed Spray-gun	18 - 22 secs	5 %	1.4 - 1.8 mm	3 - 4 bar	2
	Suction-spray-gun	18 - 22 secs	5 %	1.4 - 1.8 mm	3 - 4 bar	2
	Airless-(Airmix)-Spray	Not Recommended				
	HVLP paint gun	18 - 22 secs	5 %	1.4 - 1.8 mm	3 - 4 bar	2
	Evaporation time	Prior to drying at temperatures over 40 °C allow an evaporation time of 20 minutes.				
	Drying time	For 30 µm dry coating at 55 % of relative humidity				
	At 20 °C	Tack-Dry	after:	20	Minutes	
		Touch – Dry	after:	1	Hour	
		Dried (Can be sanded)	after:	14	Hours	
		Suitable for re-coating	after:	14	Hours	
		Completely Dry	after:	7	days	

Important references

Specific restrictions	Relative humidity max. 80 %		
Minimum application- and drying temperature	15	°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.		

Important Recommendations

	For buildings situated near the sea or in a heavily polluted area or city a clear coat must be applied to protect against the influence of salt air and pollution.
	For pastel coloured coating of surfaces subject to heavy use, such as structural elements, working surfaces etc., it is recommended to clear coat with an Avkote Varnish to improve resistance to marking.
	Please observe our Material Safety Data Sheets for all products used as well as the instructions on the tin label.

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