



AquaTec

AquaTec Coatings Limited

Ash Road South, Wrexham Industrial Estate,
Wrexham LL13 9UG

Tel: 01978 661711

Fax: 01978 666770

Email: sales@aquatecpaint.co.uk

Web: www.aquatecpaint.co.uk

ShieldTec AC-700

High Performance Wood Lacquer

Description

ShieldTec AC-700 is a high performance water based wood lacquer designed to enhance the appearance of wood whilst providing excellent protection. ShieldTec AC-700 provides a tough and durable finish making them ideal for conservatory buildings, window frames, doors, gates and furniture.

ShieldTec AC-700 wood lacquers are available in a clear or various natural wood shades giving a satin or high lustre finish. They are free of toxic pigments and solvents, thus eliminating the danger of fire hazard associated with solvent based systems.

Main Benefits

Non-toxic	Non-hazardous	Very low VOC	Low odour
High colour retention	Exterior durability	Water Repellent	Weather Proof
Water based	Easy to apply	Quick drying	Tack free
Flexible	No cracking	No blistering	No flaking

Product Information

General Properties		
Solids Content	Theoretical	Approx. 40% volume solids

Mechanical Properties		
Recommended Film Thickness	ISO 2808	25 - 75 µm DFT 60 - 185 µm WFT
Coverage Rate	Theoretical	8 m ² /l at 50 µm DFT depending on application method
Recoat Time	Theoretical	One coat system, but if required min. of 1 hour, at 25 µm DFT, 20°C and 45% relative humidity (there is no maximum recoat time)

Colour & Optical Properties		
Colours	-	Available on request
Gloss	ISO 2813	Satin and Gloss



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Surface Preparation

For New Wood

- Ensure timber is free of dirt, sawdust or debris.
- No active wood destroying fungi or insects should be present in the timber before application of the coating, any such defects should be treated as required before application.
- Timber should ideally be 12-16% moisture content. Softwood may require preservative application prior to coating.

Existing Coatings

- Test the adhesion of the existing coating to the substrate.
- For loose, flaking or otherwise defective areas, carefully remove to a firm edge.
- For retained coatings, thoroughly clean to remove dirt, grease and contaminants.
- Abrade gloss-coated surfaces to provide a key.
- Surfaces should be dry before application.

Thinners

Thin with **cold water** only.

Pretesting

A patch trial is recommended when over coating existing paint to ensure suitability and desired result.

Apply test area according to the application procedures.

Mixing

One pack system. Stir well before use.

Application Conditions

Min ambient temperature:	8°C
Min substrate temperature:	8°C
Max substrate temperature:	40°C
Max relative humidity:	60%

Recommended optimum conditions for speedy drying:
Ambient temperature 20°C at relative humidity below 45%.



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Application Instructions

Follow surface preparation instructions and ensure application conditions have been met.

For best application apply ShieldTec AC-700 using airless or air assisted airless spray equipment.

Conventional or HVLP air assisted spray is also suitable, but the paint may need to be thinned with up to 10% water. Brush or roller can also be used.

Application Method	Thinning	Tip Size	Spray Pressure	Number of Coats	WFT Per Coat	DFT Per Coat	Coverage Per Coat
Airless	-	13 - 15 thou	1700 - 2200 psi	1	60 - 185 microns	25 - 75 microns	8 sq. metres per litre at 125 µm WFT
Conventional or HVLP	5 - 10% cold water as required	1.6 - 1.8 mm	30 - 90 psi	1 - 3	60 - 185 microns	25 - 75 microns	8 sq. metres per litre at 125 µm WFT

	Roller Pile	Number of Coats	WFT Per Coat	DFT Per Coat	Coverage Per Coat
Brush/Roller	Medium pile	1 - 2	60 - 185 microns	25 - 75 microns	8 sq. metres per litre at 125 µm WFT

Do not apply if there is a risk of rain, fog or other precipitation, and ensure application conditions are maintained after application and until the coating has fully cured.

ShieldTec AC-700 is a one coat system however if a second coat is required please see recoat times stated in the Product Information section.

Drying Time

Drying times at 50 µm WFT, 20°C and 45% relative humidity:

Drying Times	
Touch Dry	30 Minutes
Tack Free	1 Hour
Fully Cured	24 Hours



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Clean Up

Equipment should be cleaned immediately with **cold** water.

Dried paint may be removed with aromatic or oxygenated solvents.

Storage

Store between 5°C and 30°C. Maximum storage period is 6 months in original containers.

Packaging

Packed in 5 or 10 litre containers.

Safety Information

Wear suitable protective clothing.

Avoid splashing on to bare skin and eyes.

Always refer to the Health and Safety Data Sheet before use.