



AquaTec

AquaTec Coatings Limited

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ShieldTec AC-700

High Performance Clear Floor Coating

Description

ShieldTec AC-700 is a high-performance water based floor coating designed to provide a decorative finish whilst providing excellent protection. ShieldTec AC-700 provides a tough and durable satin or gloss finish making it ideal for interior floor applications.

ShieldTec AC-700 floor coatings are free of toxic pigments and solvents, thus eliminating the danger of fire hazard associated with solvent based systems.

Main Benefits

Non-toxic
High colour retention
Water based
Flexible
Low odour

Non-hazardous
Water Repellent
Easy to apply
No cracking
No blistering

Very low VOC
Quick drying
Tack free
No flaking

Product Information

General Properties		
Solids Content	Theoretical	Approx. 40% volume solids
Mechanical Properties		
Recommended Film Thickness	ISO 2808	25 - 80 µm DFT 60 - 200 µm WFT
Coverage Rate	Theoretical	8 m ² /l at 50 µm DFT depending on application method
Recoat Time	Theoretical	Two 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 surfaces

- Surfaces should be free of grease, dirt and other contamination before application.

Existing Coatings

- Test the adhesion of the existing coating to the substrate.
- Test adhesion of FloorTec AC-100 to existing coating.
- Previously coated surfaces may require abrading before application.
- 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.
- For completely stripped surfaces, prepare as for uncoated surfaces.

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/Air Assisted Airless	-	11 thou	1400 - 1600 psi	2	60 - 185 microns	175 – 200 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	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	3	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 20 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.

The information and recommendations given in this literature are to the best of our knowledge, information and belief accurate at the date of publication. Nothing is to be construed as a warranty, express or otherwise. Because application conditions and usage are out of our control, it is the responsibility of the user to determine the applicability of such information or the suitability of the product for their purpose.