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SpecAqua 1K Concrete Sealer

Water based sealer/finish for floors

A one component, water based, self-cross linking, hard pure acrylate sealer/finish for interior & exterior floors. Available in clear or coloured finishes with added UV protection.

Intended Uses:

SpecAqua 1K Concrete Sealer in clear creates a wet look seal for concrete/masonry flooring such as cementitious screeds, polished concrete, paving blocks, terrazzo flooring either concrete or epoxy in residential and light industrial/commercial applications. In most cases SpecAqua 1K Concrete Sealer is self-sealing and does not require a primer, however, for high porous or very aged surfaces it is recommended to use either Epoxy WB Primer Clear or Deep Penetrating Primer WB first.

The product is available as Silk Matt / Satin finish in clear or in colours. To be used on surfaces where a silky-smooth finish, with excellent scratch resistance and very high stain & chemical resistance are required. It will provide high dirt resistance and traffic resistance. The very matt finishes are not comprised in terms of chemical resistance.

The product is designed to be applied by brush or roller without creating brush marks or roller marks, it has a very long open time allowing for continuous wet edge during application, however the long open time does not hinder the rapid drying properties of the product.

Properties:

- Light duty flooring applications.
- Non-yellowing.
- UV resistant.
- Water based.
- Rapid hardness development.
- Very low VOC.
- Highly resistant to water.
- Highly resistance to chemicals.
- Does not soften under heat.
- Has excellent adhesion to most surfaces.
- Easily repairable during the life of the system.
- Non-toxic and VOC compliant.

Chemical Resistance:

Test Chemicals	Test Duration	Test Result**
Ethanol (48%)	1 hr	3
NaOH (10%) (Caustic Soda)	1 min	4
Water (De-Ionized)	16 hrs	5
Coffee (4%)	16 hrs	5
Tea (1%)	16 hrs	5
Red Wine	5 hrs	5
Cola	16 hrs	5
Fatty Acid	1 hr	5
	5 hrs	5
	10 days	5

* Tested according to EN 12720. The fatty acid test simulates the resistance of the film to hand fat or hand lotions.
** 5 = best / 0 = worst

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Technical Data:

Colour	Clear & colours
Finish	Available in satin only
Density	1 Kg/ Litre
Volume Solids	37% (On Clear)
Typical Film Thickness	30 – 40µm DFT per coat 2 coats required
Theoretical Coverage	9.25 m²/ Litre @ 40µm DFT
Method of Application	Brush, roller, or airless spray
Number of Coats	2

Drying Information:

	0°C	5°C	10°C	25°C	30°C	40°C
Touch Dry	-	-	-	1 hr	-	-
Hard Dry (For light pedestrian traffic)	-	-	-	24 hrs	-	-
Overcoating Data – See Limitations						
Substrate Temp.	0°C	5°C	10°C	25°C	30°C	40°C
Minimum	-	-	-	6 hrs	-	-
Maximum	Extended*					

Note:
* 1-week full cure (Full development of pendulum hardness and chemical resistance).

Systems:

Wet Look Concrete Coating

SpecAqua 1K Concrete Sealer is to be applied to a suitably primed or prepared surface. In all applications the coating must be applied in minimum 2 layers to ensure a uniform and pinhole free surface. Suitable substrates would include but are not limited to concrete, metals, wood & tiles.

The below table is a guideline specification for different substrates.

Std Clear		
Total Thickness	60 – 80µm	
Primer	Cementitious substrates (Internal)	Deep Penetrating Primer WB @ 6 m²/ Litre
	Brick & Stone	Deep Penetrating Primer WB @ 6 m²/ Litre
	Ceramic Tiles	Epoxy WB GP Primer @ 10 m²/ Litre
	Wooden Substrates	Hardwoods only
	Old Coatings	Check for adhesion and compatibility
System	SpecAqua 1K Concrete Sealer is applied in 2 coats on suitably primed surfaces	

Surface Preparation:

Cement Plaster (non-friable, Gypsum Plaster, Composition Boarding, Fibre Cement)
It is recommended that fresh plaster should be allowed one week drying for every 5mm thickness and longer in cold or damp weather.

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Remove any cement, laitance, grease and mould release agents by high pressure water blast, or wash with a strong solution of Hydrosolve Degreaser. Rinse off thoroughly with clean water.

Previously painted surfaces in good condition
Loose and flaking paint should be completely removed, and the surface should then be cleaned with Sugar Soap solution or Hydrosolve Degreaser.

Previously Painted Surfaces in poor condition
Loose and flaking paint should be completely removed until the underlying plaster can be seen “grinning” though. (Grey state). This can be done by scraping, sand blasting or use of paint stripper.

Any areas of moss or lichen growth should be treated with Fungicidal Wash in accordance with the instructions. Any surface to be protected must be clean, dry, and firm, and this is especially important with glass, metallic or plastic surfaces.

Primers – further detailed application information is given in the product technical data sheets

Application:

Mixing	Material is supplied in plastic containers. This is a one component product. Agitate/stir the product well before use to ensure a homogeneous mix and no settlement in container. Once uniform only then can application begin	
Brush/Roller	If product appears too viscous/thick, add up to 10% water to improve flow or levelling.	
Airless Spray	Minimum 130 bar, minimum 11 thou tip	
Thinner	Typically used not thinned but can be thinned up to 10% with water for spray-ability, thinning 10% with water will result in a DFT 10% lower. Apply 10% extra material.	
Cleaner	SA65 Thinner	For dry paint & equipment
	Water	For wet paint
Work Stoppage	Do not allow material to remain in application equipment after use, thoroughly flush and clean all equipment with water. Seal the containers tightly after use to prevent drying out.	
Clean Up	Clean all equipment immediately after use with water. It is advisable to periodically clean application equipment during the course of the working day.	

Environment:

	Surface Temperature	Ambient Temperature	Relative Humidity
Minimum	8°C*	10°C	No lower limit
Maximum	35°C**	45°C	90%

* Or 3°C above the dew point.
* In the winter months due consideration must be given to the early onset of condensation formation early afternoon and application should be discontinued before this time.
** Higher temperatures result in reduced sag resistance and faster cure.

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Limitations:

- After applying the final coat, allow to dry for two days prior to wetting.
- Material (in closed containers) should be maintained in protected storage in accordance with information given in the STORAGE section of this data sheet.
- Technical and application data herein is for the purpose of establishing a general guideline of the coating application procedures.
- Test performance results were obtained in a controlled laboratory environment and Specialized Coating Systems makes no claim that the exhibited published test results, or any other tests, accurately represent results found in all field environments. As application, environmental and design factors can vary, due care should be exercised in the selection and verification of the performance and use of the coating.

Pack Size:

5 & 20 Litre.

Storage:

- Shelf Life: 12 months minimum at 25°C from date of manufacture. Subject to inspection thereafter.
- Store in dry conditions out of direct sunlight, away from sources of heat or ignition.

Precautions:

For complete safety and handling information please refer to the appropriate Safety Data Sheets prior to using this product.

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