

Aquarex 1001 CD

CEMKRETE

High performance water dispersed epoxy floor coating filled with conductive filler for conductive purpose (between $5 \times 10^4 \sim 1 \times 10^6$ ohm)

Innovative products for your success

Description

Generic type: Aquarex 1001 CD is a 2 components water dispersed epoxy coating filled with conductive filler used for in areas where a static conductive floor with a resistance between $5 \times 10^4 - 1 \times 10^6$ ohms is required as a measure to control static electricity. Typical areas of use include electronics manufacture and assembly, hospital operating theatres, hazardous dust and chemical environments and clean rooms. For dissipative floors with different electrical characteristics, the use of Aquarex 1001AS should be considered.

Benefits

- Static control – provides static electricity with an effective passage to earth
- Meets BS 2050 requirements.
- Available in a variety of Standard AS color.
- Easy to apply.
- Excellent adhesive.
- High abrasion resistance.
- Solventless – makes application in confined places bearable.
- Less sensitive to moisture during application.
- Meet BS 6920-1988 (Part 1) requirement.

Specification data

Surface preparation

Totally enclose shot blasting or scarification or light captive blasting. All residues must be removed to provide a dry, dust free open textured surface.

Priming

All surfaces to be treated with Aquarex 1001CD should be primed with Aquarex 1001AS primer (Black) a water based epoxy resin primer designed for maximum absorption and adhesion to concrete substrates. Add the entire contents of the hardener tin to the base tin and mix the two primer components thoroughly for at least 2 minutes - under no circumstances should part mixing be considered. Once mixed, the primer should be applied immediately to the prepared substrate using stiff brushes and/or rollers. The primer should be well 'scrubbed' into the substrate to ensure full coverage, but care should be taken to avoid over unsightly application or 'ponding'.

Allow the primer to dry before proceeding to the next stage. Do not proceed whilst the primer is 'tacky' as this will lead to unsightly marks in the finished surface. Porous substrates may require a second primer coat – when the first coat is directly absorbed into the substrate – but minimum over-coating times must still be observed.

Mixing

Pour the total contents of Hardener B into the Base A and drain thoroughly. Mix by use of drill mixer. Do not mix by hand. Thinning up to 15% with portable water is allowed for better workability.

Transfer the fully mixed contents into a spare mixing vessel and re-mix to ensure thorough dispersion. Constant stir up during application will prevent settlement of the heavy filler.

Application

Using spray or roller brush on surface to achieve the spreading rate of approximately $3.7 \text{m}^2/\text{kg}$.

Physical Properties

	10°C	20°C
Foot traffic	36 hours	24 hours
Vehicle traffic	36 hours	24 hours
Bond strength	1.5N/mm ² .	
Water adsorption	0% (Korstner test method)	
Abrasion resistance	<0.05mm (C&CA Abrasion as per BS 8204)	
Impact resistance	<0.5 mm (BRE screed tester)	
Decontamination Classification	Good (BS 4247 part 1 test A)	
Surface resistance to BS 2050	5×10^4 to 10^6 ohms	
Volume resistance to DIN 51953	5×10^4 to 10^6 ohms	
Charge dissipation	5000 V to zero in less than 0.01 second	

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Chemical Resistance

Excellent resistance to sugars and most acids (organic & inorganic). Consult Cemkrete for more detailed test data.

Performance against more common chemicals: -

	Excellent	Good	Limited
Hydrochloric acid 10%	✓		
Sulphuric acid 25%	✓		
Citric acid	✓		
Acetic acid 5 %		✓	
Lactic acid 10%		✓	
Acetone			✓
Methanol			✓
Sugar syrups	✓		
Caustic soda	✓		
Petrol		✓	
Oil	✓		
Detergents		✓	

Tool Cleaning: Clean potable water

Colours

Available in Standard AS Colors.

Coverage : 3.7m²/kg.

Packaging : 5kg

Storage & shelf life

Stored unopened in dry conditions below 25°C, shelf life will be 12 months minimum.

Precautions

Health and Safety

Gloves and goggles should be worn. Any splashes to the skin or eyes should be washed off with clean water. In the event of prolonged irritation, seek medical advice. Powder products should be handled to minimize dust formation; use a light mask if excessive dust unavoidable. Some of the components of this product may be hazardous during mixing and application, please consult the relevant Health & Safety Data Sheet, available from **Cemkrete** on request and sent with each delivery.

Additional Information

Cemkrete manufactures and supplies a wide range of those complementary products which include:

- Waterproofing membranes & waterstops
- Joint sealants & filler boards
- Cementitious & epoxy grouts
- Specialized flooring materials
- Fireproof coating and systems
- Concrete admixture
- Repairing material

For further information on any of the above, please consult your local Cemkrete office - as below.

Important Note: Cemkrete warrants its materials free of manufacturing defects and produced as per standard specifications and sold under the terms and conditions of usages, whilst Cemkrete endeavors to ensure that any advice, recommendation, or information, given through its products literatures are reflects of the R&D in-house lab test and practical sites experience and knowledge based feed backs, however, the products are being used under various conditions and applied beyond its control where or how either directly or indirectly at various locations and places at a different stages that of an intended purposes and uses. Therefore, Cemkrete cannot hold warranty or responsible for resultant consequences, such as damages to the property or assets but the product itself.