



## CEETECT AQUA

CCC CeeTect Aqua/ Aquatect is a high performance water-borne silane-modified ultra-fine particle size resinous sealant and coating for the impregnation and sealing of medium to high porosity stone and similar substrates - for use on walls, floors and other structures of stone and synthetic mineral (eg cement) materials, including ceramic and porcelain tiles, to provide reinforcement, protection, care and enhancement of such structures: some timber surfaces may also be treated with the product, subject to testing for compatibility (eg colour reactions, grain raising)

The product is a water-borne development of the well-established CCC product 'Stonetect', without addition of organic solvents and without enhancement of the colour of the substrate.

It can be used to treat the walls and floors of shower enclosures, bathrooms and similar surfaces, protection of exterior paving, particularly textured natural stone, sculpted and feature surfaces and facades in or near fountains, waterfalls and other surfaces subject to spray deposits, sub-aerial deposition or erosion, spillages, and for interior cladding, paneling, furniture, sculptures etc. subject to high thermal and humidity stresses.

It has little effect or no effect on the natural colour and character of the substrate or change the inherent tone or surface texture: it is highly u/v and oxygen resistant and non-yellowing both in the dark and daylight.

It is quick drying and, with special care, can be applied to damp (not wet) surfaces.

Depending on temperature and humidity, full chemical resistance is usually achieved within 48 hours.

### General Information

CCC CeeTect AquaAquatect is at present available in three grades depending on severity of usage conditions and substrate behaviour, e.g. structural movement, thermal cycling etc.. - light ('mid') sheen, low sheen and matt.

It has been developed from the well-established product CCC CeeTect Aqua to provide early-use protection and subsequent maintenance care to interior or exterior finishes of a very wide range of structures or surfaces, both natural and manufactured:

stone and stone-like materials, including granite, marble, slate, sandstone, ceramic and porcelain tiles, concretes of all kinds, cast or trowelled, cement renders, porous or textured mosaic stone, glass tiles and similar materials, including grp, epoxy and other resinous coatings and linings may be treated to facilitate if surface protection or restoration is required.

It protects all such surfaces from dilute acidic and alkaline water and water-borne staining and alcoholic spillages: it is sensitive to strong organic solvents but recovers its properties when only temporarily exposed

When fully cured the products are free from leachable heavy metals and hazardous or undesirable components eg formaldehyde, oestrogen-mimicing plasticisers etc..

The product has been used with reliable results in a wide variety of locations and usage conditions ranging from mild, where only aesthetic properties required enhancement, to very severe, where protection against more aggressive conditions was required.

Where the highest chemical protection is required, the product is applied as the first coat of a two-coat system with the second coat of a CCC CeeTect Aqua Professional grade product:

where sealing, water-proofing and ease of maintenance are the main requirements, the product is used as an impregnating sealant with no significant surface coating.

All versions are fully child- and animal- immersion safe when fully cured.

Protection of vulnerable surfaces with CeeTect AquaAquatect will protect the surface and make cleaning easier, but not prevent erosion from behind the protected surfaces where the protection is not applied thoroughly to all vulnerable parts.

On floors or stairs (except underwater) requiring slip reduction, additional anti-slip additives are available for such applications.

#### Usage Rates and Coverage

coverage depends mainly on substrate texture and porosity eg 20M2/l on low porosity honed stone to as low as 5-10M2/L on natural cleft or flamed slates or porous sandstones. On very open, honeycombed or porous surfaces, coverage may be significantly lower, when additional treatments may be required before CCC CeeTect Aqua is applied - please consult our technical advisors.

#### Recommendations for Use

surfaces to be treated must be clean, free from dust and other debris or previous treatments and completely dry: if previous treatments may be present, please contact our technical department for advice as some are difficult to remove satisfactorily.

Slightly damp porous surfaces may be treated if essential, but only if the substrate is then able to dry out fully: the products should not be applied to damp non-porous surfaces or those subject to 'penetrating damp'; in all such circumstances, prior testing is required as moisture on the surface may lead to impaired performance - additional treatments may be required before use of CCC CeeTect Aqua products.

The products can be applied by Sponge Applicator, good quality paint pads, short fibre microfibre rollers, soft brush or by both conventional and airless spray, including simple household pressurised sprayers, eg Garden Sprays, in less critical uses.

Apply a light uniform coat to top face and sides of the item to be sealed - if porous substrates are to be used in wet locations (eg in showers, wet rooms, outdoor paving, cladding etc) seal **all** faces (including sides and rear), **before** laying.

Very rough or porous materials may require two or more applications: apply further coats immediately the previous application is 'just touch dry' - do not wait until the surface is completely dry, or adhesion between coats may be impaired.

Wash all equipment thoroughly with clean water immediately after use; dried-on material can be removed with solvent-based paint removers if the equipment itself is resistant to the remover.

#### Technical Properties

appearance - mobile translucent liquids  
flash point (closed cup) - not applicable (water-borne)  
solids (non-volatile) content - 22-50% dependent on grade  
free isocyanate (aliphatic) content - nil  
hazard symbol - none  
cure time, at 20 C - 20 micron wet film, standard version, non-porous test surface - approx 1 hours

colour (DIN 6162, max) - 1

shelf-life - max 3 months from date of supply when kept in a cool dry place in unopened manufacturers containers

odour - very slight etherial odour

contains only non-toxic non-hazardous components

surface tension (dynes/cm) - 24-25

specific gravity at 20C - 1.05 - 1.08

hardness of cured films - B to HB depending on grade

elongation at break, 20C: upto 50%, grade dependent

special versions may have different technical properties from these typical values

chemical resistance

excellent:

dilute weak and strong acids, dilute alkalis, dilute bleach,, lower alcohols, brine, hot/boiling water,

good diesel oil, kerosene, petrol

fair

some skydrols (but **must** be tested against type and grade of product), higher alcohols, higher ketones and aldehydes

limited or low:

lower halogenated hydrocarbons, ketones and aldehydes esters

this list is not exclusive - where exposure to specific chemicals is expected, the product version selected **MUST** be tested against the exposure chemicals - if necessary, a different or special version may be required.

All versions are intended to be applied 'wet on wet' to carefully prepared and clean surfaces, the surface being worked over continuously to remove runs and drips and achieve high film build, and to leave a uniform smooth surface.

This technique enables high film build in a single coat: with reasonable care, film defects such as bubbling and holidays, and the danger of delamination of subsequent coats in multi-coat applications due to the repellency of the cured films, are eliminated.

#### Maintenance of treated surfaces

CCC CeeTect AquaAquatect treated surfaces - either 'natural sealed' or 'fully coated' are maintained by regular removal of deposits and water-borne debris by brushing, vacuuming or wiping with soft cotton cloths, microfibre mops, cloths or sponges.

dilute neutral detergents may be used to remove oil, grease and other films and stubborn marks: abrasive cleaners must not be used:

if necessary, meths. or white spirit may be used to remove stubborn grease, oil or tar deposits, but must not be left on the cleaned surfaces.

minor surface damage can be repaired by light abrasion of the damaged area and light re-coating; more severe damage will require careful stripping back to the original substrate and full re-treatment.

#### Availability

250ml, 1L and 5L recyclable UN-certified high-impact-resistant HDPE containers ; 25L units available to special order

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#### E&OE

this information is provided in good faith based on laboratory and field testing and use but as conditions of use are outside the control of the manufacturers, intending users must satisfy themselves of product suitability for their intended purpose(s). No liability or warranty either explicit or implied can be accepted without specific written agreement from the manufacturers.

#### Health and Safety

skin irritation is very rare but cured material is difficult to remove from skin - keep off skin with eg rubber/nitrile disposable gloves

in cases of eye contact irrigate with clean cool water or eye wash - seek medical attention if irritation persists;

in cases of skin contact, remove with absorbent paper or cloths, wash affected area with appropriate skin cleanser, rinse and dry: seek medical attention if irritation persists.

use protective goggles if spraying or applying overhead; when working in deep unventilated enclosures, forced ventilation may be advisable.

In unventilated enclosed areas, very rarely, sensitive persons may be affected by fume: remove affected operators from the working area - seek medical attention if unwell;



#### Disposal of waste product

do not empty containers into drains or onto earth or soil; pour onto absorbent material in a shallow vessel , allow to dry and dispose of a normal solid waste.

Empty containers should be left uncapped in a safe place for 24 hours and disposed of as solid waste.

#### Transport and Shipping

Not Regulated for Land, Sea or Air freight/transport

For further information on all aspects of the use and handling of the products, please contact the manufacturers, CCC Limited, by telephone or email as below.

All CCC Ltd products are manufactured in the United Kingdom

by

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