

AQURON 1000

ADVANCED CONCRETE TREATMENT

Water-Borne | Non-Hazardous | Non-Volatile | Non-Toxic | No Isocyanates



PRODUCT DESCRIPTION

AQURON 1000 is an advanced hydrogel penetrating sealer, applied to the surface of curing concrete to provide surface hardening, anti-dusting, and curing assistance.

BASIC USE

AQURON 1000 is a permanent, clear treatment/preservative/sealant solution for new or old concrete. AQURON 1000 will seal the matrix and harden the concrete to an average depth of 145mm, with anti-dusting benefits. AQURON 1000 has a highly reactive catalytic agent which reacts with free alkali and/or alkaline hydrates internally, producing a silica hydrogel which fills the pore spaces and the voids around aggregate.

Furthermore, alkali is converted to a neutral compound structure, reducing the potential for internal chemical reactions. More density is added, additional bonding strength is provided and concrete is permanently hydrostatically sealed from within.

AQURON 1000 provides a curing assistance by incorporating moisture to improve hydration, surface hardening and antidusting qualities, with the concrete surface "work hardening" over a period of time. AQURON 1000 does not affect normal concrete colour or appearance.

AQURON 1000 is particularly suited to exposed floor slabs under traffic or load, for example warehouses, data centres, exposed retail floors and car parks. AQURON 1000 will not contribute to tyre squeal, making it ideal for use on car park floor slabs requiring a non-squeal finish.

AQURON 1000 is not formulated to be used to control moisture vapour emissions beneath floor covering or coatings, or to withstand hydrostatic vapour/moisture pressure (in these situations use AQURON 2000).

PRODUCT DATA

Form	Liquid
Appearance	Clear
Packaging	20 litre pails / 1000 litre totes
Storage & Shelf Life	Indefinite
Odour	Slight
Flammability	Nil
VOC	Nil
Flash point	None
Specific gravity	1.09 to 1.10
pH	12±
Toxicity	Nil
Boiling point	110°C
Freeze temperature	0°C
Environmentally	Neutral
Crystalline silica content	Nil
Freeze harm	None (allow to thaw completely)

APPLICATION

AQURON 1000 can be applied to new or existing concrete. For maximum advantage including curing benefit, AQURON 1000 should be applied as soon as the concrete can be walked on after trowelling, or no later than 12 hours after pour. For existing concrete, the surface must be clean and clear of any detritus or coating that would prevent the entrance of the treatment.

1. Apply AQURON 1000 with a low pressure garden type sprayer or battery powered walk-behind sprayer (do not apply with brush or roller).
2. Start applications as soon as concrete has reached initial set, or can be walked on without imprinting the surface.
3. AQURON 1000 should be applied at a rate of no less than 1 Litre to 7m². Sufficient AQURON 1000 must be applied to satisfy the absorbency of each particular concrete surface. AQURON 1000 must be applied as an even coverage which will require 3 or more light passes to achieve coverage recommended. Wait for the surface sheen to disappear before proceeding with the next pass.
4. Application must be sprayed approximately 200-300 mm from the concrete surface. Make application using overlapping spray pattern with a fanning motion at the end of each pass.

5. The entire area being treated is to be covered in sufficient passes to maintain a wet surface without flooding, but do not allow AQURON 1000 to puddle. If so, disperse puddled area with broom and apply a water coat if necessary. (do not allow any puddles of AQURON 1000 to dry, as it may be difficult to remove dry residue).
6. When temperatures are extremely hot, the surface to which AQURON 1000 is to be applied may need to be cooled with water before and after application. Surface cooling operation after should only commence after surface sheen of AQURON 1000 application has diminished. (i.e. approximately 30 min. after final application).

PRECAUTIONS

Caution must be taken as treated surfaces may be slippery until completely cured.

Attention should be made to watches or eyeglasses etc. as **AQURON 1000 can etch glass or discolour aluminium if allowed to dry**. If this happens wash off immediately to avoid marking these surfaces.

Clean equipment using water and mild soap. Never store spray equipment without cleaning and following manufacturer's recommendations for storage between usage.

Keep containers closed when not in use.

HEALTH & SAFETY

AQURON 1000 is not classified as hazardous, and consists of a colloidal silica hydrogel dispersed in an aqueous medium.

Goggles and gloves are recommended to protect against accidental spills or splashes. No special clothing, breathing apparatus are necessary, but in enclosed areas it is advisable to wear an appropriate respirator to avoid possible irritation to breathing. For overhead spraying personal protective equipment is recommended (goggles and a particle mask).

Safe Handling Information: Store away from strong acids. Avoid physical damage to plastic containers to prevent leakage. Spills should be flushed with water and may be washed into the drainage system, as there is no environmental hazard.

Fire & Explosion Hazard: AQURON 1000 is neither combustible or flammable.

FIRST AID

Swallowed: Drink plenty of water, followed by citrus juice. Seek medical attention if nausea or vomiting occurs.

Eyes: Flush with fresh water for 15 minutes, lifting the upper and lower eye lids occasionally. Seek medical attention should redness persist.

Skin: Flood with fresh water, then wash with soap and water, and follow with an emollient moisturising cream.

Inhalation: Some breathing discomfort may be experienced when operating in extremely confined areas due to normal air components becoming disproportioned by spray mist. Leave the building where spraying is in progress and breathe fresh air until symptoms subside. This is not hazardous to health, and will be avoided through use of a particle mask.

Advice To Doctor: Treat symptomatically.

WARRANTIES AND LIMITATIONS OF LIABILITY

Markham Distributing Limited ("Seller") warrants that if any goods supplied prove defective in workmanship or materials, that the Seller shall replace them or refund their purchase price. The User holds harmless Markham Global of any liability arising from the improper use of AQURON 1000 and the User assumes all risk and liabilities whatsoever in connection therewith. The terms of this paragraph may not be orally modified. There are no warranties expressed or implied which extend beyond the face herewith.

Performance Warranty: If the product has been applied by an applicator trained and authorised in writing by the Seller, and properly followed the Seller's required quality control methods, then a performance warranty of 15 years will apply, provisions to be detailed on a project-specific basis.

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