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General Description

AQUAPROOF is an aqueous chemical solution which reacts internally with the concrete to substantially reduce rising dampness and surface dusting. After the AQUAPROOF has dried, most paint, adhesives and other coatings may be applied to the concrete.

Uses

AQUAPROOF seals, hardens, dustproofs and dampproofs basement concrete floors and walls. Excellent for garage floors because of its oil and grease resistance and good wear and anti-dusting properties. AQUAPROOF treated floors are easier to clean and keep clean. AQUAPROOF hardens concrete and achieves an increase in compressive strength of in excess of 35% over untreated samples after 28 days of curing (ASTM C42). Impact resistance is also improved by up to 13% (ASTM C805).

Limitations

AQUAPROOF should be spread evenly over the concrete surface so that it does not pool in low areas – which would result in slippery patches. Adjacent surfaces should be protected from overspray or splashes – where this occurs the sprayed surface should be washed with water within one hour. AQUAPROOF treated, smooth trowelled, cured concrete surfaces may be slippery when wet.

- Do not apply when temperature is less than 7°C (45°F)
- Protect AQUAPROOF from freezing.
- Protect glass, stainless steel, ceramics, glazed tile from overspray – leaving AQUAPROOF on these surfaces may result in surface etching.

Properties of Material

Appearance	-	clear liquid
Flammability	-	non- flammable
Viscosity	-	low
pH	-	over 10 (Alkaline)
Density	-	1.13 kg/l (11.3lb/gal or 9.43 lb/US gal)
Toxicity	-	Non toxic
Storage Limitation	-	Freezable
Constituents	-	silicates, neutralizers and penetrating agents

Application

FRESH CONCRETE

1. Complete the finishing operations and when surface is not marked by walking on it and when there is no standing surface water present, apply AQUAPROOF according to instructions.
2. Apply while concrete surface is still damp but surface water has disappeared.
3. Apply by hand or power sprayer at specified application rates.
4. Using a stiff bristled push broom or straw broom, work the coating into the porous surface. Take care not to mark the surface.
5. Allow 24 hours drying time before placing in service.

Cured and Old Concrete

1. Remove all loose material, grease, oil dust or chemical contaminants. To remove grease and oil use PAVECLEAN. A dirty or spotted floor will result in an uneven sheen and poorly protected surface. Surface should be dry.
2. Stir AQUAPROOF thoroughly before use.
3. AQUAPROOF should be applied in two coats.
4. For first coat dilute AQUAPROOF 1 part to 1 part water. This gives a deeper chemical reaction rather than a surface build-up. Apply the mixture to surface with a low pressure hand or power sprayer. On small areas application may be made by sprinkler.
5. Using a broom or stiff bristled push broom, distribute evenly over the surface at the recommended coverage rate taking care to eliminate puddles.
6. Protect drying film from dust, rain, condensation and traffic until dry. Then lightly rinse the sealed area. This water is used to speed up the sealing process and to wash away any excess leaching of alkali or other contaminants.
7. Apply second application (full strength AQUAPROOF) when surface is dry; follow same procedure as with first coat.
8. Protect drying film from dust, rain, condensation and traffic – allow 24 hours drying time then clean up with water.

Rate of Application

<u>Profile of Surface</u>	<u>M² per L.</u>	<u>Ft² per gal.</u>	<u>Ft² per US gal</u>
Smooth	6-11	300-550	250-450
Rough	2.5-7	100-300	100-285

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Warranty

Insulmastic strives to manufacture the highest quality products using selected raw materials, manufacturing methods and testing procedures. All products are warranted to be of uniform quality within manufacturing tolerance. Since no control is exercised over the end use of the product, no warranty, expressed or implied is made to the effects of such use. Seller's and manufacturer's obligation under this warranty shall be limited to refunding the purchase of the Material proven to be defective.

First Aid

If AQUAPROOF is spilled on skin, wash thoroughly with soap and water. If splashed in eyes, flush with cool water. Call a physician immediately. If swallowed, call a physician immediately.

Clean Up

Clean tools and equipment with water before AQUAPROOF DRIES. Clean hands and skin with soap and water.

Maintenance

AQUAPROOF surfaces require no special care. The use of AQUAPROOF reduces the care required and extends service life.