

AQUAPROOF IW

INTEGRAL WATERPROOFING LIQUID ADMIXTURE FOR CONCRETE & MORTAR

Description

AQUAPROOF IW is an integral waterproofing liquid admixture which is added in to the concrete / mortar at the time of batching/mixing to resist the penetration of water through the capillary action or through water under pressure in hardened state of concrete and mortar. It also improves the workability of the fresh concrete and mortar.

Usage

AQUAPROOF IW is recommended for use in structural and mass concrete, wherever waterproofing concrete / mortar is required, to minimize the permeability and increase the waterproofing property of water-retaining structures, like:

- Roof slabs and screeds, Basements,
- Reservoir and Dams
- Sewerage Works
- External plastering, Canals
- Culvert Tunnels

Features

- Provides resistance to water penetration through the capillary action or through water under pressure in hardened state of concrete and mortar.
- Liquid - disperses instantly throughout the fresh mix and produced uniform waterproofing property throughout the concrete and mortar matrix.
- Improves workability without increased water content
- Reduced efflorescence.
- Reduced sulphate attack
- Increased durability
- Improved pumpability, as it improves cohesion and reduces segregation of concrete
- Does not reduce compressive strengths
- Reduced shrinkage cracks in plasters.
- Low dose - cost effective.

Compliance Standard

AQUAPROOF IW complies with IS: 2645
IS: 9103, BS:5075 and ASTM-C-494 Type D.

Characteristic

Colour	: Dark Brown
Relative Density at 25°C	: 1.07 ± 0.02
pH	: >6
Chloride ion content	: Nil (As per BS 5075 Part I)

Dosage

Optimum dosage of AQUAPROOF IW should be determined by site trials only using the materials and conditions that will be experienced in use. However, as a guide, a dosage of 0.1 to 0.4% by weight of cement or cementitious. Due to variations of ingredients in concrete, change of site conditions, and/or applications, dosages outside of the recommended dosage may differ. In such cases, contact our local representative.

Effect of under and overdosing

Under dosages will reduce waterproofing property of concrete or mortar and over dosage may cause increase in air entrainment, delay setting, Bleed/segregation, of mix, and plastic shrinkage.

Direction for use

AQUAPROOF IW is a ready-to-use liquid integral waterproofing compound.

- For maximum dispersion throughout the mix, measured quantity of AQUAPROOF IW is to be diluted with water and to be mixed properly before addition in concrete / mortar.
- Ensure water / cement ratio and maintain water content as low as possible to achieve desired workability.

Technical support

First Choice provides technical advisory services for on-site assistance and guidance on mix design, optimum dosage evaluation of trials.

Corrosion

AQUAPROOF IW neither initiates nor promotes corrosion as it does not contain any harmful chemicals. Rather it reduces the risk of corrosion of reinforcement or other embedment, as it produces impermeable concrete

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Compatibility

AQUAPROOF IW can be used with all types of cements except high alumina cement.

It is compatible with all Naphthalene, Melamine, ligno-sulphonates and carboxylic acid base Admixture and retarders and also with most type of air entrainers, accelerators, viscosity modifying agent, extended set-control admixtures, corrosion inhibitors, and shrinkage reducers. Site trials should be carried out to optimize dosages.

Durability

Produces impermeable concrete, thus enhancing durability of concrete.

Packaging

AQUAPROOF IW is supplied in 200 gm, 1 kg, 5 kg, 10 kg, 20 kg, 230 kg drums or in bulk on request.

Storage & Shelf life

AQUAPROOF IW must be stored where temperatures do not drop below +5°C. If product has frozen, thaw at +5°C or above and completely reconstitute using mild mechanical agitation. Do not use pressurized air for agitation. Store under cover, out of direct sunlight and protect from extremes of temperature.

Shelf life is 24 months when stored as above.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.

For specific storage advice consult our local FIRSTCHOICESPECIALITY CHEMICALS representative.

Safety

AQUAPROOF IW does not fall into the hazard classifications. However, it should not be swallowed or allowed to come into contact with the skin and eyes. Suitable protective gloves and goggles should be worn. Splashes on the skin should be removed with water. In case of contact with the eyes, it shall be rinsed immediately with plenty of water and medical advice sought immediately. If swallowed, medical attention shall be sought immediately - Vomiting should not be induced.

Fire

AQUAPROOF IW is water based and non-flammable.

Cleaning of Tools

All Technical Data Sheets are updated on regular basis; it is the user's responsibility, to obtain the most recent issue. Field services where provided, does not constitute supervisory responsibility, for additional information contact our local FIRSTCHOICE SPECIALITY CHEMICALS representative.

Note:

Firstchoice Speciality Chemicals (FCSC) goods are sold pursuant to its regular terms and conditions of sale, copies of which can be acquired upon request, and are guaranteed against defective materials and manufacturing. While FCSC makes every effort to ensure that any recommendations, guidance, or specifications or information it may provide is true and accurate, it cannot accept any liability, either directly or indirectly, resulting from the use of its products, whether or not it complied with any advice, specification, recommendation, or information it provided, as it lacks direct or ongoing control over where or how its products are applied.

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