

Technical Data Sheet

-AQUACHEM-

Waterproof Chemical Injections

Description

AQUACHEM is a low viscous liquid which reacts with water in a controlled manner to form a swelling resilient adhesive, solid in density and strength appropriate to the designed task. When injected under pressure into leaking structures and through the process of polymerization, a permanent flexible water barrier is formed.

Indicative Characteristics

Physical appearance	Transparent Viscous Liquid
Specific Gravity @30C	1.08 ± 0.02
Gel Time (Seconds)	40 ± 10

Domains of Application

- AQUACHEM has versatile uses and It is normally considered to be the last resort, when all conventional grouting methods to stop leakage have failed
- AQUACHEM has successfully performed under certain most challenging conditions, where satisfied users have referred it as a magic product, to achieve almost impossible solutions.

Building Construction

- To stop water leakage onto underground structures (tanks, sumps, pits, basements etc.)
- Soil Stabilization for foundations.
- Serving as sealer or liner in concrete structures.
- To prevent water ingress, seeping from ground.
- To serve as a water barrier in basements, gravel bedding as damp-proof course.

Civil Engineering Works

- Solidifying and strengthening ground and rock and stop water from seeping out.
- Preventing leakage in tunnels and tunnel segments, deep underground structures and water retaining structures.
- Stabilization of abutment and bridge piers.
- Preventing leakage through dams.
- Prevention of landslide.
- Solidifying and creating a water barrier in rock and earth fill dams.
- Preventing air from leaking during compressed air shield construction or caisson construction.
- Increasing bearing capacity of underpinning.

Environmental Engineering & Other Applications

- Solidifying agent in Atomic, Industrial and Chemical waste solutions or wastewater units.
- Solidifying agents for Sewage and Sludge's removed from organic and inorganic waste dumps.
- Preservation of historic buildings, harbor engineering, mining, reclamation work, heavy engineering works etc.

Application

Application by injection method, AQUACHEM should be pumped by airless pump. Inject at slow and even pressure through the injecting packer/nipples till refusal or when the grout seeps out from the packer immediately adjacent to or above the one being injected.

Advantages

- AQUACHEM has a remarkable solidifying property even in ground where water flow is prominent. It stops water from seeping and solidifies the ground with high strength.
- AQUACHEM experts successful solidifying property in all types of water, such as sea water, mineral water and those containing acid and alkali.
- AQUACHEM is extremely stable both chemically and physically and will not be damaged by any bacterium.
- The coefficient of permeability of 10^{-7} to 10^{-8} mm/sec. indicates the impermeability of soil solidified by AQUACHEM. This also accounts for the excellent property of the chemical in stopping water from seeping.
- AQUACHEM possesses excellent adhesiveness to soil particles, and it is therefore also useful in landslide preventions.

Shelf life & Storage

6 Months from the date of manufacturing when stored in un-opened, original sealed and dry conditions at a temperature range from + 5 °C to 40 °C.

Packing

20 kg and 200 kg MS Drum/Bucket

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Precautions

- Store the material at the 5 °C – 35 °C temperature range in shaded cool places and keep it away from fire and any heated body. Clean all tools with MEK or any standard solvent before polymerizations starts.
- Do not keep left over material in open condition.

Safety

- Wear hand gloves. Safety shoes and safety goggles while using and handling the product.
- In case eyes or mouth are affected wash with plenty of clean water and seek medical treatment immediately.

Before use, refer to the Material Safety Data Sheet
The MSDS is available from Evergreen Coating.



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