

CHRYSO[®] POLYGROUT

Aqua-reactive PU Based Expanding Grouting Compound



Description

CHRYSO POLYGROUT is a low viscous liquid which reacts with water in a controlled manner to form a swelling resilient adhesives, 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 @ 30°C	1.08 ± 0.02
Gel Time (Seconds)	40 ± 10

Domains of Application

- CHRYSO POLYGROUT has versatile uses and it is normally considered to be the last resort, when all conventional grouting methods to stop leakages have failed.
- CHRYSO POLYGROUT 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 into underground structures (basements, tanks, sumps, pits etc.).
- Soil stabilization for foundations.
- Serving as sealer or liner in concrete structures.
- To prevent water ingress, oozing 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 oozing 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 landslides.
- Solidifying and creating a water barrier in rock and earth fill dams.
- Backfilling by impregnation for tunnel shield construction.
- 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 waste water units.
- Solidifying agent for Sewage and sludge's removed from organic and inorganic waste dumps.
- Preservation of historical relics, harbor engineering, mining, reclamation work, heavy engineering works, etc.

Application

In case of application by injection method, CHRYSO POLYGROUT should be pumped by a positive displacement plunger type pump. Inject at slow and even pressure through the injecting nipples till refusal or when the grout oozes out from the nipple immediately adjacent to or above the one being injected.

The information contained in this technical data sheet is given to the best of our knowledge and the results from extensive testing in order to remain as objective as possible. However, it cannot, in any case be considered as a warranty involving our liability in case of misuse or any different use of our products from the "Application" paragraph of this technical data sheet. Some application tests should be carried out before using the product to ensure that the methods of use and conditions of application of the product are satisfactory. Our technical assistance is at the disposal of the users. Consult the latest update of the technical data sheet on our website www.chryso.com

CHRYSO India Private Limited | Registered & Corporate Office : Plot No. D -30/7, TTC Industrial Area, M.I.D.C. Turbhe, Navi Mumbai – 400705. Maharashtra, INDIA. Tel : +91 22 27685991/2



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Advantages

- CHRYSO POLYGROUT has a very remarkable solidifying properties even in ground where water flow is violent. It stops water from oozing and solidifies the ground with high strength.
- CHRYSO POLYGROUT exerts successful solidifying property in all types of water, such as sea water, mineral water and those containing acid and alkali.
- CHRYSO POLYGROUT is extremely stable both chemically and physically and will not be damaged by any Bacterium.
- CHRYSO POLYGROUT is completely non-pollutant to the water it contacts and has no effect on potable water, fish or marine life.
- The coefficient of permeability of 10^{-7} to 10^{-8} mm /sec. indicates the impermeability of soil solidified by CHRYSO POLYGROUT. This also accounts for the excellent property of POLYGROUT in stopping water from oozing.
- CHRYSO POLYGROUT possesses excellent adhesiveness to soil particles and it is therefore also useful in landslide prevention.)

Shelf Life & Storage

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

Packing

20 kg MS Drum / Bucket

Precautions

- Store the material at the 5° to 35°C temperature range in shaded cool place and keep it away from fire and any heated body. Clean all tools with MEK or any standard solvent before polymerization 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 on www.chryso.com

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