

CHRYSO® TAPELASTIC

Two Part Acrylic Polymer Based Elastomeric Waterproof Coating



Description

CHRYSO TAPELASTIC is a two component, elastomeric, acrylic polymer modified cementitious waterproofing protective coating system in slurry form.

Indicative Characteristics

Color of Pack-A (Liquid)	Milky White
Color of Pack-B (Powder)	Grey
Color of hardened coating	Cement like Grey
Workable time, minutes, 27°C, 70% RH	30 (approx.)
% Elongation at 14 days, ASTM D 638	30 (minimum)
Tensile strength at 14 days, N/mm ² ASTM D 638	5 (minimum with fibre mesh)
Coverage	1.8-2kg/mm ²
Mix Ratio (Liquid: Powder) by wt.	1:2.5
Initial cure at 27°C, for pedestrian traffic	After 24hours
Full cure, days	7

Domains of Application

- CHRYSO TAPELASTIC is used as a waterproofing treatment for roof, basements rafts against rising dampness, retaining structures, water bodies, reservoirs, balconies, bathrooms, sunken areas, fountains, dome structures, decks and terraces.
- Damp patches on walls, to seal joints through which there is possibility of water ingress and in any other area, where a quick solution for waterproofing and damp proofing is required.
- CHRYSO TAPELASTIC can be reinforced with fibre glass mats.

Method of Application

Surface Preparation

Prior to application of **CHRYSO TAPELASTIC**, all surfaces must be prepared properly to avoid failure. The surface shall be cleaned to remove all dust, foreign materials/loose particles or any deposits of contaminants, which could affect the bond between the original substrate and the **CHRYSO TAPELASTIC** system. This can be done by scarifying, grinding, water blasting, sand blasting, acid washing or any other approved method. Rectify depression / honey-comb (if any) in the surface, use **CHRYSO ARMOURCRETE** mortar before application of **CHRYSO TAPELASTIC**.

Mixing

CHRYSO TAPELASTIC LIQUID PART (polymer) is mixed with **POWDER PART** in the ratio of 1:2.5 by weight with a help of low speed (300-400 rpm) paddle mixer. The mix has to be stirred thoroughly, until a lump-free smooth slurry is obtained. Stand for 4-5 minutes after mixing to release air from the mix..

Application

All concrete surfaces (flat and vertical /inclined) shall be thoroughly pre-wetted to saturated surface dry condition; at the same time there should not be any standing water on the surface or it should not be too wet prior to application of **CHRYSO TAPELASTIC** system. Remix the content again with a spatula and start application by brush, roller or any other suitable tools on prepared surface. Minimum two coats are recommended. More number of coats can be provided depending on job requirements. First coat should be allowed to air dry for 5-6 hours. Where more tensile strength is required **CHRYSO TAPELASTIC** coating should be reinforced with non-woven fibre glass cloth.

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Curing

After application of **CHRYSO TAPELASTIC system**, initial air-drying shall be done for 3-6 hours. During this period, no water should be used for curing. If there is a chance of rain or hot (temperature above 40°C), windy atmospheric conditions within this period, protect the coating by covering with waterproof plastic sheet. After a maximum period of 6-8 hours after the final application, moist curing shall be done for the next 2-3 days, either by spraying water or by using wet burlap. During this period, the **CHRYSO TAPELASTIC** coating at no point of time should be left completely dry or submerged in water. After the moist curing the **CHRYSO TAPELASTIC** coating shall be allowed to air dry for 3 days before submersion in water.

Advantages

- Resistant to UV (Ultra - Violet) rays
- Develops excellent bond with most of the building materials.
- Prevents peeling and blistering
- Arrests salt petre and prevent penetration of salts into concrete and mortar.
- Unaffected by chemical attacks ranging from mild acids and strong alkalis.
- Highly durable in continuous wet service condition.
- One time application, properties improve with age.
- Versatile product – can be used for waterproofing, bonding agent for old concrete to new concrete and repair mortar.

Shelf Life & Storage

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

Packing

15 kg kit

Precautions

- Reinforcement rods and other sharp materials should not be dragged over the **CHRYSO TAPELASTIC** membrane, as this can puncture the same.
- CHRYSO TAPELASTIC shall always be used in combination of Pack A and Pack B in recommended ratio for the indented purpose as mentioned above.

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

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

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