

CHRYSO[®] ARMOURTOP

Abrasion and Wear Resistant Metallic Floor Hardener



Description

ARMOURTOP is a specially manufactured metallic aggregate for mixing with cement and stone or granite chips, to provide the hardest surface to floorings and paving, which will remain wear proof, dustproof, waterproof and grease proof. It does not affect the setting times or other properties of the cement, with which it is mixed.

Indicative Characteristics

Color and Appearance	Black Granules
Abrasion Resistance (as per IS 1237-2012)	300 % (minimum) as compare to reference sample
Water absorption (as per IS 1237-2012)	10% (maximum)
Average Wear (application rate 7kg/m²)	< 2mm
Mohs Scale Hardness (aggregate)	8
Magnetic effect, % (w/w)	>80

Domains of Application

By the use of **CHRYSO ARMOURTOP** the top surfaces of flooring and paving can be made wear resistant and dustproof. It is ideally suited for use in all types of industrial floors, which are subjected to heavy traffic movement. It can withstand the impact load due to movement of heavy load over the floor topping. It is specially recommended in heavy engineering factories or as workshop floor toppings, hangers, car parks, in warehouses and gangways where frequently trolleys with metal wheels or forklifts carrying heavy load.

Method of Application

The **ARMOURTOP** should always remain dry until it is being used with the cement floor concrete. Fresh ordinary Portland cement, conforming to Indian Standard Specification should always be used. Even blended cements can also be used, provided the quality of cement is good. The aggregate to be

used as the floor topping, should be clean, angular crushed granite or quartzite stone chips of size 6mm down. The water cement ratio of the concrete should be as low as possible and preferably less than 0.45. To achieve this, concrete plasticizer is recommended as an admixture to the concrete, as this will provide. The much needed workability required for laying the top surface

For Laying a New Floor

After laying a concrete (Minimum M25 grade) base of 100mm to 150mm, a separate approximately 12-18mm thickness layer consists of **ARMOURTOP**, CEMENT, other AGGREGATE and Water of shall be laid, levelled and finished over the base concrete. The topping should always be laid over the base concrete or a separate granolithic surface, when it remains wet. When the initial set of the floor topping takes place, the surface is to be trowelled off to a polished smooth finish.

For Topping On Old Floor

Remove the old concrete surface to a depth of at least 5mm to 7mm and clear all loose particles and dust. In case of an oil soaked surface, the chipping should be done up to the oil contamination level, till clean and sound concrete is found. This clean surface is to be thoroughly soaked with water for at least 12 - 15 hours prior to laying the concrete base and floor topping. No surface water should remain before the application of the cement slurry over the surface. Apply the cement-**CHRYSO LATEX** slurry over the entire surface and then lay the ordinary granolithic layer of 13mm to 19mm thickness over this using the **ARMOURTOP** mix, to the required thickness. When this granolithic layer is still wet, trowel off to a smooth, polished finish.

Curing

Curing is essential part of **CHRYSO ARMOURTOP** flooring system. The effective curing method is to apply **FREECURE -WB** or any other effective curing membrane manufactured by **CHRYSO**. Other curing methods such as covering with plastic sheet, wet hessian cloth or pond curing is also accepted and shall be continued at 7days.

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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07/01/2017

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CHRYSO® ARMOURTOP

Abrasion and Wear Resistant Metallic Floor Hardener



Consumption

For Heavy Duty Floors

At first 1 part ARMOURTOP and 4 parts cement should be mixed thoroughly in a dry state. Then 1 part of this mixed material is to be mixed with 2 parts of stone chips thoroughly. After uniform mixing of the dry material, necessary amount of clean fresh water is to be added to have a workable consistency for properly placing and compacting the floor topping. Approximately 2 kg of ARMOURTOP will be consumed per sq. m. for 13mm thick floor topping.

For Light Duty Floors

At first 1 part ARMOURTOP and 5 parts cement should be mixed thoroughly in a dry state. Then 1 part of this mixed material is to be mixed with 2 parts of stone chips thoroughly. After uniform mixing of the dry material, necessary amount of clean fresh water is to be added to have a workable consistency for properly placing and compacting the floor topping. ~1.5 kg of ARMOURTOP will be consumed per sq. m. for 13mm thick floor topping.

Advantages

- Excellent wear resistance and produces high degree of abrasion resistant floor surface.
- Impact resistance 2 to 3 times more than that of plain concrete.
- Superior densified surface than plain concrete which increases resistance to penetration by oil, grease, hydraulic fluids, motor fuels, and many industrial chemicals.
- Compatible with vacuum dewatering flooring (VDF) system
- Facilitates fast construction with minimum site costs.
- Bonds well with most conventional cementitious substrates

Shelf Life & Storage

Being a mineral product Shelf Life is not affected on time at normal ambient condition.

Stored in un-opened, original sealed and dry condition at a temperature range from -20°C to 40°C

Packing

25kg waterproof laminated HDPE bag

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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Ideas to Reality – Rendering Quality | Ecology | Safety

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