



# ARMOURTOP

## Metallic Compound For Abrasion And Wear Resistance

### 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 pavings, which will remain wearproof, dustproof, waterproof and greasproof. It does not affect the setting times or other properties of the cement, with which it is mixed.

### USES

By the use of '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 is subjected to heavy trucking and load movement. It can withstand the impact load due to movement of heavy load over the floor topping. 'ARMOURTOP' is specially recommended in heavy engineering factories or as workshop floor toppings, in warehouses and gangways where trolleys with metal wheels or forklifts carrying heavy load frequently ply.

It resists rising dampness or absorption from the ground water, by sealing capillary pores. The ultimate top surface being smooth, makes cleaning or washing an easy exercise.

### ADVANTAGES

- ❖ Remarkably increases the impact, abrasion and wear resistance.
- ❖ Makes the floor easier to maintain.
- ❖ Very suitable for heavy-duty operations.
- ❖ Compatibles with vacuum dewatered flooring.
- ❖ Imparts waterproofing properties to the floor.
- ❖ Resists capillary rise of ground water.

### APPLICATION

The 'ARMOURTOP' should always remain dry unit it is being used with the cement floor concrete. Fresh ordinary Portland cement conforming to Indian Standard Specification should always be used in preference to Rapid Hardening Cement. 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 accelerator 'RAPIDPLAST' 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 base of 100mm to 150mm granolithic layer of approximately 38mm is to be followed. Over this granolithic layer, an 'ARMOURTOP' topping of a thickness of 13mm to 19mm is to be laid, leveled and finished. The topping should always be laid over the 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 surface.

In large projects where it is possible to lay the floor in single operation, the granolithic layer can be dispensed with. In that case, a concrete base is to be laid to the required level for laying the 'ARMOURTOP' topping over it. This topping should be laid when the base layer remains wet and finished by means of trowelling to a polished smooth surface.

#### For Topping on Old Floor :

Remove the old concrete surface to a depth of atleast 5mm to 7mm and clear all loose particles and dust. In case of an oil soaked surface, the chipping should be done upto 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 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 granolith layer is still wet, trowel off to a smooth, polished finish.

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## DOSAGE

### For Heavy Duty Floors :

1 part 'ARMOURTOP' to 4 parts cement by weight with 2 parts of 6mm down stone chips should be the normal mix portion. At first 'ARMOURTOP' and the cement should be mixed thoroughly in a dry state. Then the 2 parts of stone chips are to be mixed with the mixed material and again mixed, thoroughly. After uniform mixing of the dry material, necessary amount of clean fresh water is to be added to have a workable consistency for proper placing and the compacting of the floor topping. 2 kg of 'ARMOURTOP' will cover 1 sq.m. for 13mm thick floor topping.

### For Light Duty Floors :

1 part 'ARMOURTOP' to 5 parts cement by weight with 2 parts of 6mm down stone chips should be the normal mix portion. The mixing procedure should be the same as mentioned above. 1.5 kg of 'ARMOURTOP' will cover 1 sq.m. for 13mm thick floor topping.

## PACKING

50Kg or 25kg polyethylene lined gunny bag.

## PRECAUTION

Proper surface preparation is the essence of proper 'ARMOURTOP' floor topping. Mixture of dry cement and sand or even the dry cement should not be sprinkled over the wet surface for finishing purpose. The final trowelling should not be done until the initial set has taken place.

The 'ARMOURTOP' topping should be kept damp with wet gunny bags for a minimum period of 5 – 7 days. The 'ARMOURTOP' topping should be laid by a very skilled mason / workman who has knowledge about laying this type of floor topping. For finishing purpose, a steel trowel should always be used.

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## TECHNICAL SERVICE :

*SWC group maintains a technical division with highly qualified technical personnel to investigate and advise on subjects related to Concrete and the Construction Industry. The Division can advise on the correct use and selection of right products at the right place.*

*SWC undertakes Consultancy Service for diagnosis and rehabilitation of distressed structures. SWC undertakes Contracts on turnkey basis for total Waterproofing System with guarantee*

**NOTE :** This Technical data sheet is to be used as guidance only. Although the basic formulation of the product remains unchanged, production refinements arising from continuing research and evaluation programmes may occasionally result in marginal change in properties. The recommendation and properties of the product based on continuous monitoring of the product are not intended to infringe on other patents.

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