

am DURA-CRETE HARDENER(CS)

Corundum aggregate (50% volume by weight)

DESCRIPTION

am DURA-CRETE HARDENER(CS) is supplied in 25kg bags and consists of graded corundum aggregate (50% volume by weight) floor Hardener aggregate blended with Ordinary Portland Cement and plasticisers. **am** DURA-CRETE HARDENER(CS) is applied to plastic concrete and the resulting finished surface is extremely dense, abrasion resistant and hard wearing. As the application of **am** DURA-CRETE HARDENER(CS) results in the floor curing monolithically with the topping, excessive shrinkage, cracking etc., is avoided. The emery aggregate used, apart from being completely inert chemically, is exceptionally hard and is not prone to polishing.

USES

am DURA-CRETE HARDENER(CS) can be used in any application where an uncoated concrete is required to provide high abrasion, skid and impact resistance. It is particularly suited for heavy industrial wear.

ADVANTAGES

- Non metallic aggregate.
- No additions required - ready to use.
- Extremely hard wearing emery aggregate resulting in high resistance to abrasion and impact resistance.
- Monolithic bond to host concrete.
- Resistant to oils and greases.

APPLICATION

Preparation:

It is essential that adequate planning of the application is made in advance and that sufficient material is laid out to meet the requirements of the application.

The base concrete slab should have a thickness not less than 80mm and the concrete mix design should be formulated as follows:

Water/cement ratio	< 0.50
Cement content/m ³	> 300kg
Slump	>75 mm
Air entrainment	< 2%

Vacuum dewatering should not be used.

Application

am DURA-CRETE HARDENER(CS) should be applied at the rate of 5 - 7kg/m² depending on the degree of traffic anticipated.

am DURA-CRETE HARDENER(CS) must be applied as soon as the base concrete has reached the stage where light foot pressure leaves an indentation of around 5mm or as soon as it is practicable to apply the product correctly without damaging the plastic surface of the base slab. On large applications it is essential that sufficient operatives are available to work at a controlled rate behind the concreting team.

am DURA-CRETE HARDENER(CS) is applied in two applications. The first application utilises two thirds of the chosen application rate and is broadcast evenly across the surface but ensuring the material lands nearly vertically rather than spread horizontally.

Once applied the free water in the base concrete will slowly darken the applied material and once this stage is complete, wood floating of the surface can commence. Do not over trowel at this stage.

The remaining one third of the material can now be applied and moisture allowed to combine with the material as before and wood floating of the surface can be completed. Once the floor has attained a degree of stiffness at which light foot traffic does not mark the surface, steel floating and/or power floating can progress.

CURING :

am DURA-CRETE HARDENER(CS) should be cured with clean water or a curing membrane such as **am Flexicure**. Continuous polyethylene sheets taped at the edges is an acceptable alternative.

SPECIFICATIONS	
	Corundum aggregate
Setting Time	
Initial Set	2 - 3hours
Final Set	3 - 4hours
Abrasion Resistance	↑>200%, (for concrete G40N/mm ²)
Mohr Hardness Test	7.5
Compressive strength	~60N/mm ²
Impact Resistance	↑ 3 times

LIMITATIONS:

am DURA-CRETE HARDENER(CS) must not be used in floor areas which are likely to be exposed to acids or any other product which is known to attack Ordinary Portland cement concrete.

PACKING & YIELD:

am DURA-CRETE HARDENER(CS) is supplied in 25kg heart sealed polyethylene bags.

- Medium duty : 5kg/m²
- Heavy duty : 7kg/m²

STORAGE & SHELF LIFE:

The shelf life of the product in sealed bags is typically in excess of twelve months. Storage at high ambient temperatures or in high humidity environments may reduce the shelf life of the product.

HEALTH & SAFETY:

am DURA-CRETE HARDENER(CS) is alkaline in nature and in a moist environment may be harmful and irritating to the skin, eyes and respiratory system. Wear dust mask, gloves and goggles during handling. Skin contact should be treated with soap and water. Contact with the eyes should be treated by rinsing well with copious amounts of water prior to obtaining medical advice.

FLAMMABILITY:

am DURA-CRETE HARDENER(CS) is non-flammable.



022 - 021
Eco-Friendly Building Material
Minimum 20% Recycled Content

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Revised 3-Aug' 2020



ISO 9001 : 2000 Cert.No. 421453a



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