# abedur

## Non-metallic floor screed aggregates

### DESCRIPTION

**abedur** is a blend of very hard, natural aggregates, free from metallic material, used to produce, when blended with ordinary Portland cement (OPC), a granolithic type floor.

### USES

Screeds based on **abedur** may be used in surfacing areas operating under very wet conditions and/or subject to extreme wear. These screeds can be applied to fine tolerances with respect to line and level.
**abedur** has a successful record as flooring in:
mine change houses; mine stores; hostel kitchens; abattoirs; warehouses; bakeries; fish shops; sand blasting plants; pavements; municipal bus sheds; television studios; loading bays; product drying tunnels; shopping malls and freezer rooms.

abedur SHOULD NOT BE USED

- Where it would be subjected to attack by acids.
- Where it would be subjected to attack from detergents and other chemicals that will affect Portland Cement.

### FEATURES & BENEFITS

**abedu**r screeds may be laid:
- Monolithically with a new sub-floor, i.e. while the sub-floor is still green.
- On existing floors where the **abedur** screed is bonded to the existing floor by means of an epoxy adhesive such as
**epidermix 116.**

### COLOUR

As concrete.

### SURFACE PREPARATION

BASE CONCRETE: Where an **abedur** screed is to be laid monolithically on concrete, the slab should be cast to within 10 mm of the finished level. The surface should be true and free of excess water and laitance.
Where an **abedur** screed is to be laid on an existing floor, the floor should have a compressive strength of not less than 25 MPa. It must be mechanically sound and fully cured in accordance with good concrete practice, must be clean and free of laitance, oil, grease, dust and any other contamination.

The concrete should be roughened prior to surfacing with **abedur**. This may be done by scabbling, abrasive or water blasting, chipping or under exceptional circumstances, acid etching. If acid etching is used, request full details from **abe** on how to do this before work is commenced (13% strength HCl).
Structural cracks should be repaired prior to the application of **abedur**. (All cracks repaired must be approved by owner or engineer, structural cracks may re-occur and mirror through the **abedur**).

### JOINTS IN FLOORS

The position of the construction joints should be mapped to facilitate correct forming and cutting of joints in the **abedur** screed.
Any joint required must be saw-cut within 36 - 48 hours after laying. Joints must be cut in the screed over any construction joints in the sub-floor.
Panel size must not exceed 25 m² and joints must not be spaced more than 5 m apart.

### MIXING

Dry blend 2,5 parts by mass of **abedur** and 1 part by mass of fresh OPC (125 kg **abedur** per 50 kg of OPC).
Using preferably a pan mixer, otherwise manually, mix clean water into the blended dry ingredients. Work to the recommendations:
When laying monolithically or onto existing cured concrete:
- 15 - 17,5 litres water per 50 kg bag of cement (W/C ratio 0,30 - 0,35).

### COVERAGE

125 kg **abedur** + 50 kg ordinary Portland cement + approximately 16 litres of water will cover approx. 8 $m^2$ at a thickness of 10 mm.

### APPLICATION

1. AS A MONOLITHIC SCREED
   Allow the concrete to attain initial set (±3 hours), remove all surface bleed water and any laitance and then spread the **abedur** mortar to 10 mm thickness, using a wooden float and compact well as work proceeds. Finish with the type of float the project demands.
2. USING EPOXY BONDING LAYER – **epidermix 116**
   The concrete must be completely clean and surface dry. The recommended bonding layer is mixed as detailed in the relevant data sheet and is applied to the clean dry concrete by brush or roller.

The **abedur** screed is laid onto the **epidermix 116,** compacting well. Ensure freedom from voids both in and under the screed. Finish with the type of float the project demands.
Cure fully for at least 5 days.

### CAUTION

For optimum **abedur** screed performance:

1. Avoid excess water in the mix
2. Do not overfloat the surface
3. Cure thoroughly. An **abedur** floor is only as good as its curing. Compressive strengths exceeding 65 MPa may be achieved when using the recommended w/c ratio of 0,30 : 0,35 and curing properly.

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## CURING

Wherever **abedur** is being laid, every effort must be made to prevent too rapid drying of the screed. Draughts should be excluded and direct sunlight must be avoided.
To be able to perform as designed, **abedur** screeds must be fully cured. The preferred method of curing is to pond the surface as soon as it will bear traffic and then to cover with polythene sheets weighed down with sand-filled polythene sausages. A spray-applied **abe** approved concrete curing compound may be used where a polythene sheet is impracticable (**duracure SBC**). Curing should be continued for at least five days.

## PROTECTION ON COMPLETION

Protect surface against traffic and spillage until cured.

## MODEL SPECIFICATION

The floor screed will be **abedur**, a non-metallic floor screed aggregate applied in accordance with **abe Construction Chemicals'** recommendations including all necessary primers (**epidermix 116**) and curing compound (d**uracure SBC**) where directed.

## PACKAGING

Supplied in 25 kg polyethylene lined paper bags.

## HANDLING & STORAGE

All **abedur** related products have a shelf life of 12 months if kept in a dry, cool store in the original, unopened packs. If stored at high temperatures and/or high humidity conditions, the shelf life may be reduced.

## HEALTH & SAFETY

**abedur** contains cement powders, which when mixed or become damp, release alkalis which can be harmful to the skin. During use, avoid inhalation of dust and contact with skin and eyes. Wear suitable protective clothing, gloves, eye protection and respiratory protective equipment.
The use of barrier creams provide additional skin protection. In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately – do not induce vomiting.

## IMPORTANT NOTE

This data sheet is issued as a guide to the use of the product(s) concerned. Whilst **abe Construction Chemicals** endeavours to ensure that any advice, recommendation, specification or information is accurate and correct, the company cannot - because **abe** has no direct or continuous control over where and how **abe** products are applied - accept any liability either directly or indirectly arising from the use of **abe** products, whether or not in accordance with any advice, specification, recommendation, or information given by the company.

## FURTHER INFORMATION

Where other products are to be used in conjunction with this material, the relevant technical data sheets should be consulted to determine total requirements. **abe Construction Chemicals** has a wealth of technical and practical experience built up over years in the company's pursuit of excellence in building and construction technology.



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