



### Product Information Sheet

March 2014

## AC95

### Description

AC95 is an epoxy-based damp tolerant primer designed to seal and enhance new and existing concrete surfaces. AC95 is designed for areas of high humidity and where surfaces cannot be appropriately dried. It will penetrate the porous surface structure of the concrete and react within the cement-aggregate matrix to form a tough, durable epoxy composite. It will in this way bind the concrete together to produce a strength which far exceeds that normally found in concrete, vastly improving resistance to abrasion, impact and staining. It is provided in two-component format comprising, an epoxy solution and an epoxy-based hardener.

### Typical Uses

AC95 may be used as a penetrative primer to provide a key prior to laying an epoxy or other resin-based flooring and chemical resistant tiles or bricks. Easy to apply, it provides an attractive low sheen to the surface, rendering it non-dusty, with resistance to oil and an extensive range of aggressive chemicals. It also makes the floor waterproof so cleaning becomes much easier.

### Advantages

Typically, green concrete has to be allowed to cure for 28 days to reach sufficient strength and humidity. Application of normal epoxy primers before this time can lead to premature damage to the primer through blistering. AC95 is damp tolerant and can be applied 48 hours after concrete casting, greatly enhancing a project schedule. By being damp tolerant it can be installed in difficult areas where surface drying is not achievable (such as solvent-less zones with explosion risks). It is also designed for operation at low ambient temperatures.

In comparison with more traditional paints or primers, AC95 shows a great advantage in that it becomes part of the concrete and will therefore not flake off. It can actually restore defective screed due to its penetrative qualities. The poorer the condition of the screed the greater the impregnation and therefore the strengthening effect. It can be used in conjunction with glass cloth and mats, to build up a membrane.

### Chemical Resistance

Full details are available on ACCS website: [www.protectivelinings.co.uk](http://www.protectivelinings.co.uk). AC95 is not a corrosion resistant primer and would therefore require the

application of a top coat of another material to provide this function.

### Surface Preparation

For all pre-existing surfaces of concrete, abrasive blast or scarify to remove all laitance and surface contaminants. Surface should be dust-free and dry and the ambient temperature should be above the dew point of air.

### Application

The primer comprises an epoxy solution and an epoxy hardener. Nominal primer thicknesses above concrete surface of up to 0.5mm are recommended. Values are an intended guide.

Mixing Ratio	1 parts Solution to 0.6 parts Hardener
By weight	~25kg Solution to 15kg Hardener
By volume	~1L Solution to 0.6L Hardener

Using a paddle mixer, place Solution in mixing vessel and add Hardener. Mix thoroughly for at least 3 minutes.

Apply by paint brush or roller, for large areas a soft sweeping brush is best. Apply until absorption of concrete is satisfied without allowing the materials to form into pools or flood the area. Leave to cure, and if necessary apply second coat 12-16 hours but not later than 48 hours after the first, to even off the finish and give an attractive gloss. Where a secondary epoxy or other resin-based flooring layer is scheduled, the application of a fine quartz scatter before full cure is recommended to provide a key for subsequent layers. All tools and equipment should be cleaned off with solvents and damp cloths to ensure their continued use.

### Pot-Life

at 20°C – 60mins  
 at 30°C – 40mins  
 at 40°C – 25mins

An initial set occurs approximately 4 hours after mixing, light foot traffic permissible after 12 hours and with a full chemical cure occurring after 5-7 days. AC95 should never be exposed to water or steam environments before the primer is completely cured.

**Note: Do not mix more material than required by pot-life. It cannot be reconstituted. Never add unapproved materials to the mix, in particular water. After mixing spread out on to surface to avoid self-generated heat. Large mixed volumes**



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that are not thinned will flash set, becoming extremely hot and producing smoke.

### Coverage

Typical coverage on a relatively smooth concrete surface for a mixed AC95 system is 0.5kg/m<sup>2</sup>. Values are approximate requirements.

### Standard Packing

Solution – 25kg in 25L UN drums (24 per pallet)  
Hardener – 25kg in 25L UN drums (24 per pallet)

### Storage

Store in a cool, dry, frost-free place. Normal storage conditions in up to 25°C should provide shelf life of:

Solution – 12 months

Hardener – 12 months

Do not store a combined stack of Solution and Hardener components. Accidental leakage could lead to flash setting of material, producing smoke. Storage at, or exposure to, high temperatures may initiate a setting reaction.

### Safety

Safety data information available on request. Adequate ventilation must be provided whilst work is in progress and is compulsory for closed or indoor applications. The instructions on storage, fire and explosion are to

be observed. No releases to the sewers or drains are to be permitted under any circumstances. Always refer to MSDS data sheets for hazard and transport information.

### Warranty

We warrant that our products will conform to the description contained in the order and that we have good title in all goods sold. WE PROVIDE NO WARRANTY, WHETHER OF MERCHANTABILITY, FITNESS FOR PURPOSE, OR OTHERWISE, EXPRESS OR IMPLIED, OTHER THAN AS EXPRESSED SET FORTH HEREIN. We are glad to offer suggestions or to refer you to customers using ACCS Ltd cements and compounds for similar applications. Users shall determine the suitability of the product for intended application before using, and users assume all risk and liability whatsoever in connection therewith regardless of any suggestions as to application or construction. In no event shall we be liable hereunder or otherwise for incidental or consequential damages. Our liability and your exclusive remedy hereunder or otherwise, in law or in equity, shall be expressly limited to our replacement of non-conforming goods at our factory or, at our sole option, to repayment of the purchase price of non-conforming goods.

### Technical Data

Parameter	Test Method	Unit	Value
Density		kg/m <sup>3</sup>	1050
Specific Volume		m <sup>3</sup> /tonne	1
Tensile Strength	ASTM D-638 Modified	MPa	30
Water absorption		%	0.1
Maximum Operating Temperature		°C	105
Coverage – mixed primer		m <sup>2</sup> /kg	2

### Disclaimer

The technical data contained in this document represents the current state of our product knowledge and is for information purposes only. It does not constitute a guarantee or specification.