

SPEEDCRETE S ACRYLIC

Product code

ACR014 (Summer) ACR015 (Winter) Packaging listed overleaf.

Description

Speedcrete S Acrylic is a mix of fine cement powders, graded high purity sands, 6mm ASR resistant aggregate plus a synergistic blend of admixtures including a spray-dried acrylic polymer. The product is pre-blended and ready for mixing on site to produce a mobile repair material. Placed repairs rapidly gain early age compressive strength, 25N/mm² at 2 hours.

Speedcrete S Acrylic complies with BD27/86 pt 6 Department of Transport Specification for Bridge Repairs.

Speedcrete S Acrylic is an L.U.L. approved product, WARRES No. 66294

The product contains no high alumina cement, chlorides or deleterious substances. The powder, when mixed with water, produce a homogenous concrete which will not segregate or bleed and is non-shrink. A strong bond is achieved between the placed material and the repair substrate.

Speedcrete S Acrylic is easily mixed and placed. The mix has mobile concrete consistency and is designed to resist ASR attack.

Uses include:

Works requiring rapid gain in compressive strength.
Repairs to car parks, forecourts, loading bays and ramps.
Patch repairs to floors, steps, ruts, hollows and cracks.
Motorway and carriageway and bridge deck repairs

Specification Outline

Concrete repairs and replacement shall be carried out using Speedcrete S Acrylic as manufactured by Tecroc Products Ltd. The product must be stored, handled and used strictly in accordance with the manufacturer's instructions.

Quality Assurance

Tecroc Products Ltd is a firm of Assessed Capability. The Company's quality system conforms to BS EN 9002:1994 and is assessed by SGS Yarsley International Certification Services Ltd.

Standards

Speedcrete S Acrylic has been tested in accordance with the appropriate parts of BS 1881, BS 4550, ASTM C827, BD27/86, BS 476.

Typical Mortar Properties @ 20°C

Consistency

Water Content %	Ltr/25kg Bag	Consistency
10	2.5	Mobile Concrete

Consistency Life

Water Content %	Ltr/25kg Bag	Concrete Agitated 5°C to 20°C
10	2.5	30 Minutes

Consistency Life Will Be Reduced Above 20°C

Set times (BS 4550)

Water content %	Ltr/25kg bag	Initial Set	Final Set
10	2.5	20 Minutes	30 Minutes

Compressive Strength

Water Content %	N/mm ² 2 Hours	N/mm ² 6 Hours	N/mm ² 1 Day	N/mm ² 7 Days	N/mm ² 28 Days
10	25.0	35.0	45.0	55.0	70.0

Density @ Water Content 10%: 2280kg/m³

Shrinkage: Speedcrete S Acrylic is shrinkage compensated

Flexural Strength @ 28 Days: 12.0N/mm²

Tensile Strength @ 28 days: 5.0N/mm²

Residual Moisture @ 6 Hours: 5.0%

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Instructions For Use

Preparation

Ensure all contact surfaces are clean, free of contamination and dust. Square cut edges of repairs to a minimum of 15mm deep. Concrete surfaces should be soaked with water then blown free of standing water prior to application. Once a batch of Speedcrete S Acrylic has been mixed intimately scrub some of the mixed material onto the substrate. **Do not allow the scrub coat to dry before application of the topping.**

Mixing

Place the required quantity of water in a suitable mixing vessel. Slowly add the powder to the water whilst continuously mixing. Suitable mixers include a slow speed high torque (1kW) drill with a Mortar Stirrer. After all the powder has been added mix for a further 2 minutes. Mixing by hand is not recommended.

Placing

Pour the mixed Speedcrete S Acrylic onto the wet scrub coat and thoroughly compact the topping. Finishing off should be carried out using a steel trowel or float. A brush finish may be obtained using a bass broom after placing.

Curing

After application has been completed, any exposed material must be cured immediately with Polycure sprayed at a rate of 10m² per litre. Mixing equipment and tools should be cleaned and washed with plenty of water as soon as possible after finishing work.

Precautions

Health and Safety

Speedcrete S Acrylic is alkaline when mixed with water and should not come into contact with skin or eyes. Avoid inhalation of dust during mixing and wear safety glasses, dust mask and gloves. If skin contact occurs wash thoroughly with clean water. Should eye contact occur rinse immediately with plenty of clean water and seek medical advice. Full health and safety data are given in Product Safety Data Sheet.

Fire

Speedcrete S Acrylic is non-flammable

Yield

Speedcrete S Acrylic is packed in 25kg bags. The yield obtained is approximately 12.0 litres of mixed material.

Storage And Shelf Life

Speedcrete S Acrylic will have a shelf life of 12 months when kept in dry conditions at a temperature of 5°C to 45°C. Storage at higher temperatures and high humidity may reduce the shelf life.

Packaging And Ordering

Speedcrete S Acrylic is supplied in 25kg bags:
Summer Grade: Product Code ACR 014
Winter Grade: Product Code ACR 015

For further information and sales please contact your local Tecroc Products office as listed below.

Tecroc Products Ltd products are guaranteed against defective materials and manufacture. Products are sold subject to the Tecroc Products Ltd Terms and Conditions of Sale, copies of which are forwarded on invoice and are available on request. Tecroc Products Ltd endeavours to ensure that the above data and any further advice is correct, however, it cannot accept any direct or indirect liability for the use of its products as such usage is beyond its control.

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