

Estopatch RSP

Rapid – setting patch repair concrete for pavements and floors

Description

Estopatch RSP is a blend of dry powders and graded aggregates which requires only the site addition of clean water to produce a highly consistent, high strength, free flowing repair concrete which self-compacts. The material is blend of inorganic cements, special fillers and chemical additives to control the rate of strength gain to provide a fluid micro-concrete. **Estopatch RSP** exhibits excellent thermal compatibility with good concrete and good water repellent properties.

Uses

For the emergency reinstatement of damaged or deteriorated concrete. The material is particularly suitable for repairs to airport runways, aprons and areas where wheeled traffic requires fast return to service. It may be used internally and externally.

Advantages

- Rapid strength gain – will accept vehicular traffic in 2 hours
- High Strength, abrasion and weather resistance
- Economical – can be bulked-out with graded aggregate in some locations
- Self – compacting – eliminates honey – combing and voids
- Contains no chloride admixtures

Physical Properties

Compressive Strength, N/mm ² BS 6319 : Part 2 : 1983 3 hours 1 day 7 days 28 days	35 ± 5 45 ± 5 55 ± 5 65 ± 5
Working Life, mins 25°C 35°C	30 20
Setting Time, mins BS 4550 : Part 3 : 1978 w/p ratio 0.18 @ 25°C Initial set Final set	40 50
Traffic Time, hr @ 25°C Pedestrian Vehicular	1 2
Fresh wet density	Approximately 2200kg/m ³ dependent on actual consistency

Application Instructions

Preparation

Saw cut the extremities of the repair locations to a depth of at least 20 mm to avoid feather – edging and to provide a square edge. Break out the complete repair area to a minimum depth of 20 mm up to the sawn edges.

Clean the surface and remove any dust, oil, paint and grease deposited.

Priming

Prior placing, the prepared concrete substrate should be saturated by flooring with clean water. Immediately prior to the application of **Estopatch RSP**, the water should be removed leaving the substrate fully saturated.

Estobond Acryl primer should then be scrubbed well into surface. **Estopatch RSP** may be applied as soon as the primer becomes tacky.

Mixing

Mixing in a suitability sized drum using an approved spiral paddle in a slow speed (400/500 rpm) heavy duty drill is acceptable. Measure 4.0 to 4.5 litres of water and pour three quarters into the mixer. Add one full 25 kg bag of **Estopatch RSP** and mix for one minute before adding the rest of the water. Mix for a further 3 to 4 minutes until a smooth even consistency is obtained.

When the drill and paddle mixing method is used, the complete measured volume of water should be placed in the mixing drum. With the paddle rotating, add one full 25 kg bag of **Estopatch RSP** and mix for 3 to 5 minutes until a smooth even consistency is obtained.

Placing

The mixed material should be placed within 10 minutes of mixing in order to gain full benefit of fluidity. Repairs may be surfaced finished using a trowel or wood float. If a textured surface is required, this can be achieved using a suitable roller or brush as the material begins to stiffen. **Estopatch RSP** can be applied up to 100 mm thickness in a single application.

For repair sections deeper than 100 mm, it would be necessary to fill-out **Estopatch RSP** with suitable and properly graded aggregate in order to minimize temperature rise. Aggregate should be in a saturated, surface dry condition. The quantity of aggregate required will vary dependent on the nature and configuration of the repair location. The quantity of aggregate should never exceed 1 part aggregate to 1 part **Estopatch RSP** (by dry weight). Trial mixes should be made in order to ensure the optimum addition of both water and aggregate.

Packing & Size

Estopatch RSP	25 kg bag
Estobond Acryl	20L pail

Yield

Estopatch RSP	13 litre per bag depending on water addition
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Coverage

Estopatch RSP	1 m ² at 13mm thick
Estobond Acryl	4 – 6 m ² per litre depend on porosity of substrate

Technical Support

Estop offers a comprehensive range of high performance, high quality of product for both new and existing concrete surfaces. In addition, the company offers a technical support package to specifiers, end-users and contractors, as well as on-site technical assistance.

Storage

Estopatch RSP should be stored on pallets in dry conditions. Under these conditions, the product will have a shelf life of 6 months.

Precaution

Estopatch RSP should not come in contact with the skin and eyes, or be swallowed. Ensure adequate ventilation and avoid inhalation of vapours. If contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately and do not induce vomiting.

Additional Information

Estop manufactures and offers a wide range of complementary products, which includes waterstops, waterproofing products, grouts, anchors, specialized flooring products. In addition, a wide range of products formulated for repair and refurbishment of spalled concrete are available.

Important Note

Estop products are guaranteed against defective materials and manufacture and are sold subject to its standard Terms and Conditions of Sale, copies of which may be obtained on request. Whilst Estop endeavors to ensure that any advice, recommendation, specification or information in may give is accurate and correct, it shall not, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation or information given by it.