

SpECtop RSR

RAPID SETTING REPAIR COMPOUND FOR CONCRETE PAVEMENTS & FLOORS

DESCRIPTION

SpECtop RSR is a ready to use blend of dry powders requiring only the addition of the recommended amount of clean mixing water. The resultant product exhibits high early strength and is virtually self-levelling. The product consists of blended cements and fillers with selected additives to provide the excellent handling characteristics demonstrated by the mixed product.

TYPICAL USES

SpECtop RSR may be used for the rapid reinstatement of concrete floors where interruption to traffic flow must be minimised.

ADVANTAGES

- Extremely rapid gain of strength
- Does not contain chloride based additives
- Excellent abrasion resistance
- Self compacting

TECHNICAL DATA

Typical results @ 20 °C

Compressive strength	33 N/mm ² @ 2 hours
	53 N/mm ² @ 1 day
	62 N/mm ² @ 7 days
	73 N/mm ² @ 28 days
Working time	20 minutes @ 20 °C
	12 minutes @ 30 °C
Setting time	35 minutes @ 20 °C
	20 minutes @ 30 °C

APPLICATION

Preparation

Form a saw-cut around the perimeter of the repair to a depth of at least 10mm, to avoid feather edging and to give a tidy boundary to the proposed repair. Carefully break out the repair area ensuring a minimum depth of 10mm throughout. Clean the area to remove dust, laitance and other deleterious

matter including rebar corrosion products. If doubt exists as to the effectiveness of the preparation, a pull-off test should be carried out to confirm satisfactory bond to the substrate.

All corroded reinforcing steel should be completely exposed and treated to remove all corrosion products by grit blasting to produce bright steel. If the cause of this corrosion is determined to be chloride attack, the steel and the surrounding concrete should be high pressure washed to remove any chlorides present in the repair area. The surface should be dried using oil-free compressed air.

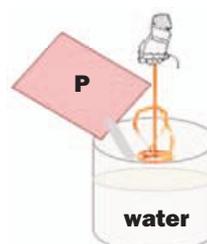
Exposed reinforcing steel should be coated with **SpECcoat Zn25** in two coats and allowed to dry.

It is essential that **SpECbuild Primer E1** be used and applied with a scrubbing action to ensure intimate contact with the prepared substrate, which should be completely dry prior to application. The use of **SpECbuild Primer E1** is also imperative where chlorides are known to be present in the host concrete.

Mixing

SpECtop RSR is a ready to use blend of dry powders.

A forced action mixer is required to mix **SpECtop RSR** however, for small one bag batches it is acceptable to use a suitably sized drum and to mix using a heavy duty slow speed electric drill fitted with a **SpECbuild** mixing paddle.



Place 3.2 litres of water in the mixer and add the powder slowly while the mixer is running. Continue mixing for 5 minutes.

Application

The mixed product should be applied to the primed substrate while the primer is tacky. Do not attempt to apply product to a dry primer. Apply the mortar by trowel and ensure thorough compaction around reinforcing steel.

The maximum bay size should not exceed 5m² and the product can be laid at a minimum of 10mm and a maximum of 100mm thick in one layer. On completion, the surface should be finished with a steel trowel to ensure a closed surface, however, the surface should not be over-worked.

In hot conditions it is recommended that the bags of product should be stored overnight in a cool environment and mixed using cold water. These precautions will enhance the relatively short pot life.

CURING

The finished surface should be cured using **SpECcure WE** immediately on completion of trowelling.

EQUIPMENT CLEANING

SpECTop RSR and **SpECcure WE** should be cleaned from tools using clean water. Cured material can only be removed mechanically. **SpECcoat Zn25** and **SpECbuild Primer E1** should be removed using **SpECTop Cleaning Solvent**.

PACKAGING & YIELD

SpECTop RSR	25kg bags yielding 11 litres of mixed product
SpECbuild Primer E1	1 & 5 litre tins
SpECcure WE	200 litre packs
SpECTop Cleaning Fluid	1 & 5 litre packs

STORAGE & SHELF LIFE

All products have a shelf life of 12 months providing they are stored in a cool dry store in unopened packs.

HEALTH & SAFETY

SpECTop RSR is alkaline and contact with skin and eyes should be avoided by the use of appropriate protective clothing.

For complete information refer to the product MSDS.

FLAMMABILITY

SpECTop RSR, **SpECcure WE** and **SpECbuild Primer E1** are non-flammable. **SpECcoat Zn25** and **SpECTop Cleaning Fluid** are flammable.

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If it is proven that the product does not perform as described in our TDS, SpEC's liability extends solely to the free replacement of product, once the claim has been accepted after due investigation by SpEC. SpEC will not entertain any claims involving any form of consequential costs or damages such as shipping costs, custom duties, damages to third parties, damages to structures, penalties from delay of a project or any other form of consequential damage.

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