

Product Overview



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 **rbs**
SPECIALITY PRODUCTS



Rapid Concrete

RBS RAPID CONCRETE

rbs Rapid Concrete is a rapid set, high early strength repair concrete, consisting of a dry blend of polymer modified Portland Cement and limestone aggregate. Its high performance exhibits a fast development of physical properties allowing early return to service, especially suitable for heavily trafficked areas. The new improved formula, which was introduced at the beginning of 2023, provides an improved cold working performance giving a faster set and improved strengths at early stages.

Areas of Use

- Industrial floors
- Loading bags
- Failed floor slabs
- Parking decks and ramps
- Airport hardstandings
- Fixing EV charge points



Product Benefits

- High early strength
- Rapid setting time between 25 -30 minutes
- Works at low temperatures
- Shrinkage compensated

IS IT SUITABLE FOR WORKING IN LOW TEMPERATURES?



Works at lower temperatures

» 5°C, do not use below this temperature as the early strength development will be substantially reduced.

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APPLICATION KEY INFORMATION

The surface should be suitably textured to provide an adequate key, this can be achieved by scabbling or needle gunning. It should be scabbled to a minimum depth of 12mm for foot traffic or 20mm for wheeled traffic with the edges cut but to a minimum of 16mm to avoid feather edging. Repairs with free edges should be firmly shuttered to resist the expansive force generated during setting.

Prepare by thoroughly saturating the substrate for several hours with clean water. Remove any standing water prior to the application of rbs Rapid Concrete, leaving the surface wet.

Mix rbs Rapid Concrete with a forced action mixer (e.g. Creteangle), adding the powder to the water and mixing until homogeneous; care must be taken to avoid overmixing since undue air entrainment will reduce the properties of the material. For a single pack application mixing with a suitable slow speed rotary drill fitted with a paddle attachment, such as EPI MR4, is satisfactory.

rbs Rapid Concrete requires 3.5 litres of water per bag. This may be adjusted by ± 0.5 litres to vary the consistency of the mix. The mix remains workable for up to 25 minutes, depending on conditions. rbs Rapid Concrete can be applied to a maximum thickness of 50mm, for repair sections thicker than 50mm it is possible to mix additional aggregate with rbs Rapid Concrete (up to a maximum thickness of 250mm). The precise quantity of aggregate used will depend upon the particle size and grading, but typically 12kg of a single-sized aggregate may be added to a mixed pack of rbs Rapid Concrete. Under no circumstances should sand or any aggregate containing fine material (under 6mm) be added.

Apply the rbs Rapid Concrete to the wet surface and compact well and finish with a float. Thickness from 12mm upwards are possible in one application. The repair area must be protected, in line with good concreting practice and allowed to properly cure for at least 2 hours with wet hessian and polythene sheet, or an efficient curing membrane.



Case Study

DYMCHURCH COASTAL REPAIRS



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EV CHARGE POINT INSTALLATION



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Application Advice from Paul Rigby

Resapol National Technical Support Manager

Make sure all surfaces that will come into contact with rbs Rapid Repair Concrete are clean and dust free.

The concrete substrate should be thoroughly soaked prior to the rbs rapid repair concrete being applied to reduce suction and help prevent stress during setting.

If the substrate is really porous the repair zone can be flooded with clean water for as long as possible. Immediately prior to placing all excess water should be removed.

Any concrete exposed to wind or drying conditions should be suitably protected, preferably by coating with rbs Greencure WB eco friendly curing compound.

Any concrete that is likely to be subject to low temperature during its early strength development should be protected by covering with hessian or frost blankets for at least 2 to 4 hours after initial set.

1. Due to the speed of set the material should be placed as quickly as possible. So make sure everything is prepared and ready to go.
2. Small quantities can be mixed by hand, care being taken to accurately measure the water to create a workable mix.

If you have any questions or need further advice please don't hesitate to contact Paul - prigby@resapol.com



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Giving back with every pack