

CEMART RAPID REPAIR CONCRETE

High Strength Rapid Setting Repair Concrete

Product Features

CEMART RAPID REPAIR CONCRETE is designed as a fast setting high strength patch repair concrete for use in repairs subjected to heavy traffic in both internal and external applications. CEMART RAPID REPAIR CONCRETE is supplied as a pre-blended polymer modified, dry powder which, when mixed with water, is designed for application between 10 mm to 100 mm. Repairs greater than 100 mm can be achieved by bulking out the repair concrete with aggregate. It is suitable for use in a wide range of industrial environments such as warehouses, food-processing plants, loading bays and is suitable for bridge deck repairs, pavement repairs, car parks deck and ramps.

CEMART RAPID REPAIR CONCRETE is dimensionally stable and fast drying and can be over-coated with an epoxy, polyurethane or cementitious floor coating or topping within 6 hours after application. This will vary with site conditions.

Technical Information

Working time	15 - 20 minutes
Setting time @ 20°C	30 minutes
Hardened density (kg/m ³)	2350
Compressive strength (N/mm ²) BS 6319 Part 2 :1983 7 days	>50
Flexural strength @ 28 days (N/mm ²) BS 6319 part 2:1990	>10
Application thickness	10 - 100mm
Bond strength to concrete (N/mm ²)	> 3

The above results were obtained using 2.5 litres of water per 25 kg of product.

Repair Preparation

Substrates should be mechanically prepared by wire brush, hammering, grit-blasting, steam cleaning etc, to produce a clean, aggregate exposed finish, free from contaminants that may prevent adhesion. Edges must be cut back to a minimum depth of 10mm surrounding the repair to allow the repair area to be 'toed-in'. At joint detail it is recommended that the substrate be cut back to a depth of around 25 mm. Feather edging is not recommended and should be avoided.

Any exposed steel should be completely uncovered and abraded to a bright finish (SA 2.5) after removing any rust scale or corrosion products.

Where corrosion has occurred due to chloride attack the steel should be high pressure washed and grit blasted. CEMART PRIMER may be used to coat any reinforcement, especially if this may be left exposed for sometime. The temperature of the repair area must be maintained above 5°C throughout the application and drying of CEMART RAPID REPAIR CONCRETE.

Mixing

CEMART REPAIR CONCRETE can be mixed using a forced action mixer such as a creteangel. Slowly add the contents of a 25 kg bag to 2.25 - 2.5 litres of clean potable water depending on consistency required and mix for approximately 2-3 minutes. CEMART RAPID REPAIR CONCRETE has a working time of 15 - 20 minutes. CEMART RAPID REPAIR CONCRETE can be bulked out with a suitable aggregate for repairs, which exceed 100 mm depth. It is recommended that aggregate be added to 2 bags of CEMART RAPID REPAIR CONCRETE. The addition of extra water would not be required for the above mix.

Application

Apply the mixed CEMART RAPID REPAIR CONCRETE to the repair ensuring good compaction to the pre-dampened substrate. Fill and level up to existing profile of the surrounding concrete using a float or trowel. If a stiffer consistency is preferred, ensure that mixed material is pre-worked into the substrate using a stiff brush before pouring the material into the repair.

Curing

Once CEMART RAPID REPAIR CONCRETE has achieved final set (after approximately 30 minutes) use appropriate curing methods such as polythene sheeting or a suitable curing membrane.

Cleaning

Wash tools with water immediately after use.

Precautions

Do not place when the substrate temperature is below 5°C or when the ambient temperature is 10°C and falling. Protect from frost. Do not exceed the maximum recommended water content of 2.5 litres per 25 kg bag and only use clean potable water.

Packaging and Shelf Life

CEMART RAPID REPAIR CONCRETE is supplied in 25 kg paper sacks. Shelf life is 6 months in unopened bags, stored under good conditions.

Storage

Protect from frost and store under dry warehouse conditions at a temperature between 10°C and 30°C.

Coverage

A 25Kg bag using 2.0 litres of clean water will yield approx 11.5 litres. A 25 kg pack of CEMART RAPID REPAIR CONCRETE will cover 1.15m² at a thickness of 10 mm.

General Guidance

This Data Sheet is for general guidance purposes only and may contain information that is inappropriate for certain conditions of use. Accordingly, all recommendations and suggestions are made without guarantee. Further information is available from our Technical Department. Please consult our Sales Department to confirm that this Data Sheet is the current issue.