

# CEMPATCH SBR

## Waterproof polymer bonding aid and mortar additive



TECHNICAL DATA SHEET PUBLISHED APRIL 2011

### PRODUCT FEATURES

**Cempatch SBR** is a pure polymer emulsion, designed to improve the mechanical and waterproofing properties of sand/cement based screeds, mortars and renders. The addition of Cempatch SBR has a strong plasticising effect, thereby allowing a reduction in the water/cement ratio, further improving the flexural, tensile and compressive strength and enabling screeds to be applied down to 10mm and renders down to 6mm.

The addition of Cempatch SBR will also significantly increase resistance to chemical attack, abrasion and freeze-thaw cycling.

Cempatch SBR applications include:

- As a bonding agent for bonding new concrete to old
- Patch repair compounds
- Industrial floors and screeds
- Water-resistant renders and screeds
- Lining effluent tanks.

### MATERIALS SUPPLIED

25 and 200 litre containers.

### CONSUMPTION/DOSAGE RATE

Typically 10-20% v/w on the OPC weight i.e. 5-10 litres of Cempatch SBR per 50 kg of OPC.

See table on page 2 for suggested mix designs.

### STORAGE

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

### SHELF LIFE

12 months in unopened containers and stored under good conditions.

### SURFACE PREPARATION

Substrates should be mechanically prepared by bush hammering, grit blasting, etc., to produce a clean, exposed aggregate finish, free from dust, oil, grease, paint, laitance, etc., in order to provide a 'key' for the Cempatch SBR. The clean, sound surface should be dampened with water prior to application of the bonding primer, modified mortar or render. All excess water must be removed prior to application.

### TECHNICAL INFORMATION

Colour	White emulsion
Viscosity @ 20°C	60 – 300 mPa.s
Specific gravity	1.0
pH	9 – 11

### PRIMING

A coat of 3:1:1 OPC : Cempatch SBR : water grouting slurry should be applied to the pre-dampened surface with a mediumstiff brush.

Systems to be bonded must be placed whilst the primer remains tacky. The priming coat must be worked into the surface with a stiff brush or broom, ensuring uniform wetting of the substrate.

If the primer is allowed to dry, apply a second coat. **Do not redampen dried primer.**

### APPLICATION

Once mixing is complete, apply the mix onto the primed area and work well into the substrate. For levelling and consolidating, tamp with a screed bar and then rub with a plastic float. A smooth finish is achieved by light trowelling with a straightedged steel trowel.

If greater depths are required on both vertical and overhead applications, this may be carried out by building up in layers with the surface of the intermediate layer being scratch -keyed and cured prior to the further application of the slurry primer and mortar when the material has set up.

## APPLICATION

### Typical Mix Designs

Application	Bonding & priming	Patch repair mortar 6 – 50mm	Kerbstones & bedding tiles 6 – 50mm	Waterproof render 6 – 9mm	Heavy duty floor screed & patch repair 10 – 50mm
OPC	2 kg	50 kg	50 kg	50 kg	50 kg
Sand – medium	-	150 kg	125 kg	125 kg	75 kg
Aggregate (granite)	-	-	-	-	75 kg
Cempatch SBR Water (approx.)	0.4 litres 0.4 litres	10 litres 8 litres	12 litres 7 litres	12 litres 6 litres	10 litres 6 litres
Approx. yield	4 m <sup>2</sup>	0.09 m <sup>3</sup>	0.08 m <sup>3</sup>	0.08m <sup>3</sup>	0.085 m <sup>3</sup>

- The yields and water contents above are based on dry sand. Actual yields obtained may vary depending on the type of sand and whether it is wet or dry. It is recommended that site trials be carried out with the sands to be used to determine exact yields.

## CURING

Cempatch SBR applications are cement based and in common with all such materials, must be cured in accordance with good concrete practice. The use of polythene sheeting is recommended for a minimum 7 days to prevent rapid drying out. Alternatively a curing aid such as **Setseal 6** can be used (see appropriate technical data sheets).

The system should be allowed to cure for a minimum 7 days at 20°C before subjecting to full service conditions.

## WORKING TIME

Cempatch SBR has a working time of approximately 20 minutes at 20°C.

- Never leave Cempatch SBR mixes to stand for any length of time before laying as this will considerably shorten the working time.

## PRECAUTIONS

Do not place when the substrate temperature is below 5°C or when the ambient temperature is 5°C and falling.

Protect from frost.

## CLEANING

All equipment should be cleaned with water immediately after use.

## HEALTH & SAFETY

Consult the appropriate Material Safety Data Sheet before using Cempatch SBR.

## 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 Services Department.

Don Construction Products Ltd Churnetside Business Park, Station Road,  
Cheddleton, Leek, Staffs, ST13 7RS, UK T: +44 (0) 1538 361799

#### Note:

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