

# MasterBrace<sup>®</sup> 2200 (Formerly known as Concessive 2200)

High strength epoxy bedding and repair mortar

## DESCRIPTION

**MasterBrace 2200** is a solvent free, high performance, non-slumping epoxy mortar and adhesive. **MasterBrace 2200** can be used as a bedding mortar, thixotropic adhesive and non-sag concrete repair mortar.

## RECOMMENDED USES

- Bedding of bridge beams or steel bridge bearings
- Repairing surface defects in concrete in horizontal, vertical and overhead applications
- Fining of injection ports for MasterInject resins
- Bonding of dowels, bolts and anchors into concrete
- Rapid structural repair of concrete
- Repair of concrete posts in situ

## FEATURES AND BENEFITS

- **Adheres to concrete surfaces** – Allows rapid repair of concrete
- **Solvent free** – Low VOC and non-shrink
- **Pre-proportioned packaging** – No job site errors
- **Easy application** – No primer necessary
- **High abrasion, impact and chemical resistance** – Can be used as contact surface in aggressive environments
- **Cures hard at low temperatures** – Wide application range

## PROPERTIES

| Mixed resin and hardener only                |                   |
|--|-------------------|
| Compressive Strength (BS 6319 part 2) @ 25°C | 40 MPa @ 1 day    |
|  | 65 MPa @ 7 days   |
| Flexural strength (ASTM C 580 part 7) @ 25°C | 20 MPa @ 7 days   |
| Tensile Strength (BS 6319 Part 7) @ 25°C     | 10 MPa @ 7 days   |
| Pot life                                     | 50 minutes @ 25°C |
|  | 30 minutes @ 40°C |
| Recoat time                                  | 8 hours @ 25°C    |
|  | 6 hours @ 40°C    |

|  |                            |
|--|----------------------------|
| Bond strength  | >2. MPa (concrete failure) |
| Setting time   | 12 hours @ 25°C            |
| Meets the requirements of ASTM C881 Type 1 Grade 3 Class B & C |                            |

## Chemical Resistance

**MasterBrace 2200** resists most common organic and inorganic acids in diluted form, also resistant to alkalis, water, oils, grease, etc. Chemical resistance depends on the chemicals involved, their concentration, temperature and degree of exposure. Good housekeeping practices such as immediate clean-up of all spillages will greatly extend the service life.

|                         | Part A      | Part B | Mixed |
|-------------------------|-------------|--------|-------|
| Supply Form             | Paste       | Liquid | Paste |
| Colour                  | Grey        | Amber  | Grey  |
| Mix Ratio               | 100:75 pbw  |        |       |
| Density (Mixed)         | 1.85 kg/L   |        |       |
| Application Temperature | 15°C - 35°C |        |       |

## APPLICATION

### Surface preparation

Remove all grease, oil, dust, residual curing compound, mould release agent or other contaminant that could impair adhesion. Laitance should preferably be removed by light sweep blasting or hydro-jetting. Mechanical wire brushing may be appropriate for small areas.

Spalled concrete should be cut back to sound concrete and made good with **MasterBrace 2200** mortar. Conventional concrete curing compounds should be removed before application.

### Mixing

Proportion part kits accurately mixing only what can be used in less than 30 minutes. Thoroughly stir Part A, add Part B and blend thoroughly using a slow speed mixer fitted with a suitable paddle.

### Application

The **MasterBrace2200** may be placed using a trowel or spatula and applied evenly across the whole surface. Subsequent coats should be placed within 30-45 minutes and the **MasterBrace 2200**



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should still be tacky. The use of a trowel dipped in solvent is recommended of a very smooth final surface is required.

## CURING

Cure time will vary depending on the ambient temperature, quantity mixed and placed.

**MasterBrace 2200** will have fully cured after 7 days at 23°C.

## ESTIMATING DATA

A 6 kg kit of **MasterBrace 2200** will yield 3.24 litres.

## PACKAGING

**MasterBrace 2200** comes in a 6 kg kit

## SHELF LIFE

**MasterBrace 2200** can be stored in tightly closed original containers for 12 months at moderate temperature.

## PRECAUTIONS

For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtain a copy of the BASF Material Safety Data Sheet (MSDS) from our office or our website.

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### STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this BASF Construction Chemicals publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

### NOTE

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