

# MasterBrace<sup>®</sup> ADH 2200

High strength, non-flow, epoxy bedding and repair mortar

## DESCRIPTION

**MasterBrace ADH 2200** is a non slumping epoxy bedding compound and adhesive. It is a two pack, fine aggregate filled, fast curing material, ideal for a variety of bedding, gap filling and concrete repair applications.

**MasterBrace ADH 2200** is a stiff but easily workable compound that can be applied by either trowel, spatula or knife. It cures to give high mechanical properties typical of epoxy compounds. It is resistant to oils, greases, petroleum, salts, many acids and alkalis and most commonly met corrosive media. It does not shrink on curing, and is designed to be used when cured from below freezing point to 60°C. Its impact resistance, and mechanical strength is greater than that of concrete.

Two-component epoxy-based mortar filled with selected fine aggregate.

## TYPICAL APPLICATIONS

- Bedding bridge beams or steel bridge bearings
- Repairing surface defects or to honeycombing concrete in horizontal, vertical or overhead situations
- Fixing slip bricks to concrete
- Securing bolts into walls
- Dowel bars anchoring
- As a gap filling adhesive
- Filling bolt pockets
- Bedding tiles
- Repairing concrete posts in-situ
- Fixing of surface ports for crack injection

For surface repairs of fine cracks and spalls. For gap filling, grouting, bedding fixtures etc. For repairs to arises without the use of form work. Wherever a thixotropic epoxy mortar is required.

## ADVANTAGES

- High strength
- Non-slump
- Strong adhesion
- Impact resistant
- Chemical resistant
- Non shrink
- Epoxy based

- Trowels to a smooth finish
- Easy to use
- Supplied in pre-weighed units
- No bonding agent or primer required

## PACKAGING AND COLORS

**MasterBrace ADH 2200** is available in 7.5 kg units and available in Cement grey and Dark grey.

## TYPICAL PROPERTIES\*

Mixed density at 25°C	~1770 kg/m <sup>3</sup>
Compressive strength to ASTM C579 @ 40°C	C >= 60 MPa
Bond to concrete	In excess of the cohesive strength of concrete
Pot life* at 25°C	70 min
at 40°C	30-40 min
Tack free time at 25°C	7 h
at 40°C	2 h 15 min

\*Pot life when entire kit is mixed together at 40°C is <35 minutes.

## APPLICATION GUIDELINES

### SURFACE PREPARATION

All loose particles, laitance, dust and grease etc., must be removed prior to application of **MasterBrace ADH 2200**.

### MIXING

The 7.5 kg pack has been designed to be readily mixed by trowel. Where more than one pack is to be mixed at a time, a slow speed mixing drill and sealant paddle is suitable.

Mix until a smooth streak free consistency is achieved.

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## PLACING / APPLICATION

Knife or trowel **MasterBrace ADH 2200** to the required level using the minimum of solvent on the trowel to aid workability. The surface may be finished smooth by use of a paint brush dipped in a suitable thinner (Xylene / MEK / Acetone). Where a very deep recess is to be filled, it may be necessary to build up in layers. Repairs may be camouflaged if required by covering surface with cement powder before full cure is affected.

### Chemical resistance

**MasterBrace ADH 2200** has excellent resistance to the following: most aqueous systems, sewage, urine, fresh water, sea water, diluted and concentrated alkalis, diluted acids, sulphur gases, mineral, vegetable and animal oils and fats, ammonia and formaldehyde.

### Working temperature

**MasterBrace ADH 2200** will cure at temperatures as low as 5°C, although at low temperatures cure is retarded.

## CLEANING

Clean with a suitable thinner (Xylene / MEK / Acetone) immediately after use.

## COVERAGE / YIELD

7.5 kg is sufficient to cover 2.8 m<sup>2</sup> at 1.5 mm thickness.

## STORAGE AND SHELF LIFE

Store under cover out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment. Shelf life is 12 months when stored as above.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult Master Builders Solutions Technical Services Department.

## HEALTH AND SAFETY

As with all chemical products, care should be taken during use and storage to avoid contact with eyes mouth, skin and foodstuffs (which can also be tainted with vapour until product fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use. For further information refer to the material safety data sheet.

## QUALITY AND CARE

All products originating from Master Builders Solutions Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001 and ISO 14001.

\* Properties listed are based on laboratory controlled tests.

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### STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Master Builders Solutions 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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