

MasterBrace[®] ADH 2200

High strength, non-flow epoxy bedding and repair mortar

DESCRIPTION OF PRODUCT

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 compound. 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 60oC. Its impact resistance and mechanical strength are greater than that of concrete.

PRIMARY USES

- For surface repairs of fine cracks and spalls
- For gap filling, grouting, bedding fixtures, fixing dowel bars, etc.
- For repairs to arrises without the use of formwork
- Wherever a thixotropic epoxy mortar is required

TYPICAL APPLICATIONS

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

ADVANTAGES

- High strength
- Non-slump
- Strong adhesion
- Impact-resistant
- Good chemical resistance
- Non-shrink

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

PACKAGING

MasterBrace ADH 2200 is available in 5kg units.

COMPOSITION

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

TYPICAL PROPERTIES

Colour:	Cement grey
Mixed density:	1750kg/m ³ at 25°C
Flashpoint:	N/A
Compressive strength to ASTM D695:	>60N/mm ² at 7 days
Bond strength:	Greater than that of the concrete
Pot life:	At 25°C: 1 hour 45 minutes At 40°C: 45 minutes
Tack-free time:	At 25°C: 7 hours At 40°C: 2 hours
Full cure:	At 25°C: 5 days At 40°C: 3 days

STANDARDS

ASTM C881: Type I and IV Grade 3 Class B and C

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 oil; vegetable and animal oils and fats; ammonia and formaldehyde.

APPLICATION PROCEDURE

PREPARATION:

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

MasterBrace[®] ADH 2200

MIXING

The 5kg pack has been designed to be easily mixed by trowel. Where more than one pack is to be mixed at a time, a Mixal portable mixer (HD5 model) is suitable. Mix component A and component B together until a uniform, streak-free colour is obtained.

APPLICATION

Knife or trowel **MasterBrace ADH 2200** to the required level. The surface may be finished-smooth by applying a small amount of solvent on the trowel and using to finish the **MasterBrace ADH 2200**. 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 the surface with cement powder before full cure is effected.

WORKING TEMPERATURE

MasterBrace ADH 2200 will cure at temperatures as low as 5oC, though at low temperatures cure is retarded.

COVERAGE

5kg is sufficient to cover 2.86m² at 1mm thickness.

EQUIPMENT CARE

Clean with solvent, immediately after use.

STORAGE

Store under cover, away from flames, out of direct sunlight and protect from extremes of temperature. 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's Technical Services Department.

SHELF LIFE

Up to 12 months if stored in unopened containers according to manufacturer's instructions.

SAFETY PRECAUTIONS

As with all chemical products, care should be taken, during use and storage, to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Re-seal containers after use. Use in well-ventilated areas and avoid inhalation. For further information, refer to the material safety data sheet.

NOTE

Field service, where provided, does not constitute Supervisory responsibility. For additional information, contact your local Master Builders Solutions representative.

Master Builders Solutions reserves the right to have the true cause of any difficulty determined by accepted test methods.

QUALITY STATEMENT

All products manufactured by Master Builders Solutions Egypt, or imported from Master Builders Solutions affiliate companies world-wide, are manufactured to procedures certified to conform to the quality, environment, health & safety management systems described in the ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007 standards.

* Properties listed are based on laboratory controlled tests.

® Registered trademark of a MBCC Group member in many countries of the world

Master_Builders_Solutions_CC-EG/Brace
ADH_2200_09_10/v1/06_14

