

# MasterBrace ADH 2200

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

## MATERIAL 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.

## PRIMARY USES

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.

## 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.

## 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

**MasterBrace ADH 2200** is available in 2 litre kits. (Base = 2.06kg ; Reactor = 1.28kg, Total = 3.34kg).

## COMPOSITION

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

## TECHNICAL PROPERTIES\*

Colour	Cement grey
Mixed density at 25°C	1.7g/cm <sup>3</sup> (approx.) N/A
Compressive strength to ASTM C579	60 N/mm <sup>2</sup> at 7 days
Bond Strength	>3.5 MPa
Pot Life	At 25°C: 1 hour 45 min At 40°C: 45 min
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

## CHEMICAL RESISTANCE

**MasterBrace ADH 2200** has excellent resistance to 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. However, for specific application and chemicals exposure to certain environments it is recommended to consult with Master Builders Solutions.

## APPLICATION PROCEDURE

### Preparations:

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

### Mixing:

The 2 litre 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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## 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 Methyl Ethyl Ketone. 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.

## WORKING TEMPERATURE

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

Note: For potable water applications the product must be cured for a minimum of 21 days depending on temperature.

## SAFETY PRECAUTIONS

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.

## COVERAGE

1 Litre (1.67kg) = +/-1m<sup>2</sup> per 1mm thickness dependent on substrate profile.

## EQUIPMENT CARE

Clean with Methyl Ethyl Ketone immediately after use.

## STORAGE

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 from date of manufacture when stored in undamaged, unopened packaging.

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

## NOTE

Technical support, where provided, does not constitute supervisory responsibility. For additional information contact your local MB Construction Chemicals Solutions South Africa (Pty) Ltd representative. MB Construction Chemicals Solutions South Africa (Pty) Ltd shall not be liable for technical advice provided.

MB Construction Chemicals Solutions South Africa (Pty) Ltd reserves the right to have the true cause of any difficulty determined by accepted test methods. Undertaking such tests is not, and shall not be deemed to be, an admission of liability or an assumption of any risk, loss, damage or liability.

## QUALITY AND RESPONSIBLE CARE

All products originating from MB Construction Chemicals Solutions South Africa (Pty) Ltd are manufactured under a management system independently certified to conform to the requirements of the quality standards ISO 9001, environmental and occupational health and safety standards.

\* Properties listed are based on laboratory controlled test

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