

MasterBrace[®] 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.

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 3kg & 10kg units.

COMPOSITION

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

TYPICAL PROPERTIES

| | |
|-----------------------------------|--|
| Color: | Cement grey |
| Mixed density at 25°C: | 1758 kg/m ³ (approx.) |
| Flashpoint: | N/A |
| Compressive strength to ASTM C579 | 60 N/mm ² at 7 days |
| Bond to concrete: | In excess of the cohesive strength of concrete |
| Pot life | at 25°C 1 hrs. 45 minutes |
| | at 40°C 45 minutes |
| Tack free time at 25°C | 7 hours |
| | at 40°C 2 hours 15 minutes |

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.

APPLICATION PROCEDURE

PREPARATION

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

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MIXING:

The 3kg 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.

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 MasterTop Thinner No. 2. 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 21 days @ 30°C.

COVERAGE

3kg is sufficient to cover 1.1 m² at 1.5mm thickness.

EQUIPMENT CARE

Clean with MasterTop Thinner No. 2 immediately after use.

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 vapor 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.

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.

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.

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 AND CARE

All Master Builders Solutions Products are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health and safety standards of ISO 9001 and Master Builders Solutions ESHQ recommendations.

* Properties listed are based on laboratory controlled tests.

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CONTACT

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Disclaimer:

In view of widely varying site conditions and fields of application of our products, this technical data sheet is meant to provide general application guidelines only. This information is based on our present knowledge and experience. The customer is not released from the obligation to conduct careful testing of suitability and possible application for the intended use. The customer is obliged to contact the technical help-line for fields of application not expressly stated in the technical data sheet under "Fields of Application". Use of the product beyond the fields of application as stated in the technical data sheet without previous consultation with Master Builders Solutions and possible resulting damages are in the sole responsibility of the customer.

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