BUILDING TRUST

PRODUCT DATA SHEET

# Sikadur® ADH 2200

(formerly MBrace ADH 2200)

High strength, non-flow epoxy bedding and repair mortar

## DESCRIPTION

Sikadur® 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. Sikadur® 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.

## 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.
- 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

## CHARACTERISTICS / 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

## PRODUCT INFORMATION

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

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| **Packaging** | Sikadur® ADH 2200 is available in 5kg units. |
| **Shelf life** | Up to 12 months if stored in unopened containers according to manufacturer's instructions. |
| **Storage conditions** | 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. |
| **Colour** | Cement grey |
| **Density** | Mixed density: 1750kg/m3 at 25oC |
| **Compressive strength** | Compressive strength to ASTM D695: >60N/mm2 at 7 days |
| **Chemical resistance** | Sikadur® 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 INFORMATION

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| **Consumption** | 5kg is sufficient to cover 2.86m2 at 1mm thickness. |
| **Pot Life** | At 25oC: 1 hour 45 minutes<br>At 40oC: 45 minutes |
| **Curing time** | At 25oC: 5 days<br>At 40oC: 3 days |
| **Tack free time** | At 25oC: 7 hours<br>At 40oC: 2 hours |

## BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## USES

### WORKING TEMPERATURE

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

## ECOLOGY, 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. 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.

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

All loose particles, laitance, dust, grease, etc. must be removed prior to application of Sikadur® 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 Sikadur® 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 Sikadur® 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.

### CLEANING OF EQUIPMENT

Clean with solvent, immediately after use.

## LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product’s suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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