

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, two-component epoxy bedding compound and adhesive. The product is a fine aggregate-filled, fast-curing epoxy system designed for a wide range of applications, including bedding, gap filling, anchoring, and concrete repair. Its non-sag consistency makes it particularly suitable for vertical and overhead applications where stable placement is required.

Sikadur® ADH 2200 is a high-performance epoxy adhesive and repair compound with a stiff yet easily workable consistency. It can be applied using a trowel, spatula, or putty knife, ensuring ease of placement in a wide range of applications.

Upon curing, the material develops excellent mechanical properties characteristic of epoxy-based compounds. It exhibits outstanding resistance to oils, greases, petroleum products, salts, numerous acids and alkalis, as well as most commonly encountered corrosive chemicals.

Sikadur® ADH 2200 is non-shrinking during cure and is designed for service in temperatures ranging from below freezing up to 60 °C. The cured compound provides exceptional durability, impact resistance, and mechanical strength, exceeding that of conventional concrete, making it suitable for demanding structural repair and bonding applications.

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
- As a gap filling adhesive
- Bedding tiles
- Repairing concrete posts in-situ
- Fixing of surface ports for crack injection

FEATURES

- 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

Composition	Two-component epoxy-based mortar filled with selected fine aggregates
Packaging	7.5 kg set (Components A+B)
Colour	Dark grey
Shelf life	12 months from date of production

Storage conditions	Store in original, unopened, sealed and undamaged packaging in dry conditions at temperatures between +5 °C and +30 °C. Protect from direct sunlight.
Density	~1.8 kg/l (mixed, at +25 °C)

TECHNICAL INFORMATION

Compressive strength	≥ 60 N/mm ² (7 d)	(ASTM D695)
Tensile adhesion strength	≥ 1.5 N/mm ² (or concrete failure)	(ASTM D7234)
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

Consumption	~1.8 kg/m ² per mm of thickness.	
Layer thickness	Sikadur® ADH 2200 may be applied from a feather edge for minor surface repairs up to a maximum recommended layer thickness of 3 mm per application. For greater repair depths, application in multiple layers or the use of a suitable epoxy repair mortar should be considered.	
Pot Life	Temperature	Pot life
	+25 °C	≤ 65 min
	+40 °C	≤ 35 min
	*pot life when entire kit is mixed at +40 °C is ≤ 30 min.	
Tack free time	Temperature	Tack free
	+25 °C	~5 hours
	+40 °C	~2 hours

BASIS OF PRODUCT DATA

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

LIMITATIONS OF USE

Sikadur® ADH 2200 is capable of curing at substrate and ambient temperatures down to +5 °C. However, at lower temperatures, the curing reaction proceeds at a reduced rate, resulting in extended cure and strength development times.

FURTHER DOCUMENTATION

General Method Statement

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

Mortar and concrete must be older than 28 days (depends on minimal requirement of strengths). Verify the substrate strength (concrete, masonry, natural stone).

The substrate surface (all types) must be clean, dry or mat damp (no standing water) and free from contaminants such as dirt, oil, grease, existing surface treatments and coatings, etc.

SUBSTRATE PREPARATION

Concrete, mortar, stone, bricks: Substrates must be sound, dry, clean and free from laitance, ice, standing water, grease, oils, old surface treatments or coatings and all loose or friable particles must be removed to achieve a laitance and contaminant free, open textured surface.

MIXING

Mix components A and B together for at least 3 minutes with a mixing spindle attached to a slow speed electric drill (maximum 300 rpm) until the material becomes smooth in consistency and a uniform in colour. Avoid aeration while mixing. Then, pour the whole mix into a clean container and stir again for approximately 1 minute at low speed to keep air entrapment at a minimum. Mix only that quantity which can be used within its pot life.

APPLICATION

When using a thin layer adhesive, apply the mixed adhesive to the prepared surface with a spatula, trowel, notched trowel, (or with hands protected by gloves). Where a very deep recess is to be filled, it may be necessary to apply the product in layers. Once hardened check the adhesion by tapping with a hammer.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with suitable solvent (Xylene / MEK / Acetone) immediately after use. Hardened / cured material can only be mechanically removed.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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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ISO 9001, 14001, 45001 – SGS:
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- Sika International Chemicals LLC
- Sika Gulf B.S.C. (c)
ISO 9001, 14001 – SGS:
- Sika Saudi Arabia Limited
ISO 9001, 14001 – TÜV:
- Sika UAE LLC (Branch)
ISO 9001 – SGS:
- Sika MB LLC

All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.



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