

PRODUCT DATA SHEET

Sikadur[®]-43 TA

HIGH PERFORMANCE EPOXY TILE ADHESIVE FOR HEAVY DUTY CONDITIONS

DESCRIPTION

Sikadur[®]-43 TA is a solvent-free, thixotropic, three-component tile adhesive, based on a combination of epoxy resins and specially selected high strength fillers.
Suitable for use in hot and tropical climatic conditions.

USES

Sikadur[®]-43 TA can be used as heavy duty adhesive where high mechanical and chemical properties are required such as the following:

- Bonding of refined ceramic / porcelain tiles, marble, granite and glass mosaic
- Industrial kitchens and catering facilities
- Fixing acid resistant tiles in heavy duty workshops and services facilities

CHARACTERISTICS / ADVANTAGES

Sikadur[®]-43 TA is an extremely versatile product that offers many advantages to the user:

- Non-absorbent easy to clean and hygienic in service
- Hardens without shrinkage
- Excellent mechanical properties with high abrasion and impact resistance
- Excellent resistance to a wide range of chemicals
- Excellent adhesion to most substrates
- Suitable for vertical and horizontal applications

SUSTAINABILITY

Sikadur[®]-43 TA is certified according "Low Emitting Materials (Paints, Coatings, Adhesives and Sealants) as per the 2010 Dubai Green Building Regulations and Specifications" by Dubai Central Laboratory (DCL) certificate No. CL17020432

PRODUCT INFORMATION

Composition	Epoxy resin			
Packaging	Standard unit: 34 kg			
	Component: A	Component: B	Component: C	Component: A+B+C
	4 kg	2 kg	28kg	34 kg
Colour	Grey (mixed components A+B+C)			
Shelf life	12 months from date of production			
Storage conditions	Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between 5 °C and 35 °C. Protect from direct sunlight, heat and moisture.			
Density	~2.00 kg/l (mixed comp.: A+B+C)			
Compressive Strength	~60 N/mm ²			(ASTM C579)
Tensile Strength	~18 N/mm ²			(ASTM D638)

Tensile Adhesion Strength	≥ 6 N/mm ² (or concrete failure)	(ASTM D4541)
Chemical Resistance	Resistant against many chemicals. Please contact Sika Technical Department.	(ASTM D1308)
Service Temperature	-40 °C min. / +60 °C max.	

APPLICATION INFORMATION

Mixing Ratio	A : B : C = 2 : 1 : 14 (by weight)	
Consumption	<p>The consumption depends on the surface profile and roughness of the substrate and on the size of the tiles and the placing technique (simple placing "floating" or back to back "buttering-floating").</p> <p>As a guide: For 1 mm thickness over 1 m² area approximately 2.0 kg of material. One 34 kg unit will cover approximately 5.6 m² at 3 mm thickness.</p>	
Layer Thickness	Min.: 3 mm Max.: 10 mm (locally up to 12 mm thickness possible, for leveling purpose)	
Ambient Air Temperature	+8 °C min. / +40 °C max.	
Dew Point	Beware of condensation. Substrate temperature during application must be at least 3 °C above dew point.	
Substrate Temperature	+8 °C min. / +40 °C max.	
Pot Life	~75 min. (+25 °C) The potlife begins when the resin and hardener are mixed. It is shorter at high temperatures and longer at low temperatures. The greater the quantity mixed, the shorter the potlife. To obtain longer workability at high temperatures, the mixed adhesive may be divided into portions. Another method is to chill components A+B and C before mixing them (i.e. only when application temperatures are above +20 °C).	
Open Time	~90 min. (+25 °C)	
Applied Product Ready for Use	Floor tiles can be grouted and walked on	After 24 - 36 h
	Wall tiles can be grouted	After 12 - 24 h
	Full traffic / use	After 7 d

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

- Substrates must be properly cured, structurally sound, free of any loose or friable particles, clean, dry and free of any contaminants such as dust, dirt, oil, grease, cement laitance or efflorescence.
- Metal surfaces (steel and iron) should be free from scale, rust, oil and grease.
- Depending on the substrate condition and contaminants to be removed from the surface, perform adequate preparation techniques, such as blastcleaning, in order to remove all traces of any materials that could reduce the product's adhesion to the substrate.
- Any small surface defects and variations in level, profile, or around exposed aggregates for example, can be prefilled and levelled with an additional layer of Sikadur®-43 TA, to a maximum thickness of 12 mm, applied at least 24 h before laying the ceramic tiling. For larger and thicker areas of surface reprofiling and making good, appropriate mortars from the

SikaRep®, Sika MonoTop® or Sikafloor® Level range should be used. Cracks in substrates must be identified and sealed appropriately e.g. with Sikadur epoxy resins.

- When laying tiles on non-absorbent or substrates with limited absorbency, such as existing ceramic tiles, painted surfaces etc., check to confirm that these surfaces are all firmly and securely bonded and stable, then use suitable degreasing/descaling products to thoroughly and completely clean the surface.

MIXING

Mix components A + B together for at least 2 minutes with a mixing paddle attached to a slow speed electric drill (max. 600 rpm) until the material becomes homogeneous. Slowly add component C and continue mixing until a homogeneous mortar is achieved. Avoid entrapping air.

APPLICATION METHOD / TOOLS

Spread the mixed adhesive on the surface to be tiled with a notched trowel large enough to give 100% coverage when tile is pressed into the adhesive. Tiles should be pressed firmly into place until properly aligned and bedded. Ensure that the size of the working area can be tiled within the pot life of the product. Clean the tiles with Sika® Colma Cleaner immediately. Hardened / cured material can only be mechanically removed.

Wall application (vertical surfaces):

Install a batten to help keep your tile rows straight, following rows of tiles should be applied by using plastic spacers to maintain uniform tile joints and control eventual sagging of the tile. In case the thixotropy of the material need to be improved, addition of ~0.1% Extender T (Thickening Agent for Resin Systems) is possible, for more details please contact Sika Technical Department.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with Sika® Colma Cleaner immediately after use. Hardened/cured material can only be mechanically removed.

IMPORTANT CONSIDERATIONS

- Protect freshly applied material from rain, wind, etc.
- Make a test area prior to carrying out any work with natural stones.

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.

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 the exact product data and uses.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

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: Sika UAE LLC,
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ISO 14001: Sika UAE LLC,
Sika Gulf B.S.C. (c),
Sika Saudi Arabia Co. Ltd
OHSAS: Sika UAE LLC,
Sika Gulf B.S.C. (c)

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 OHSAS
18001.

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