

PRODUCT DATA SHEET

Florbond-406

A VERSATILE TWO-PART POLYURETHANE ADHESIVE THAT WILL BOND A WIDE RANGE OF MATERIALS TO A VARIETY OF SUBSTRATES.

DESCRIPTION

Florbond-406 is a solvent-free 2-component polyurethane adhesive with a paste-like consistency.

USES

- Flooring applications for difficult-to-bond materials, for example slate
- Sandwich panels for metal to expanded polystyrene or polyurethane foam
- Laminating industries for many components
- Particle flooring to concrete surfaces
- Ceramic and slate tiles to a variety of surfaces

CHARACTERISTICS / ADVANTAGES

- Excellent adhesion to the following materials and substrates: slate, mosaic wood block and particle board flooring, ceramic, stone and similar decorative tiles, linoleum and vinyls, expanded polystyrene and polyurethane foam, acrylic and ABS plastic sheet linings.
- Suitable for use in high indoor traffic and high stress areas
- Good resistance to flow so can be built up to 10 mm
- Effective on vertical surfaces
- Good gap filling properties
- Resistant to warm water exposure (eg in shower lining applications)

PRODUCT INFORMATION

Chemical Base	Uncured: Part A = liquid. Part B = paste. Cured: Flexible hard film
Packaging	2 litre units. Each unit consists of a hardener (Part A) and a polymer base (Part B), packaged in separate containers in the correct ratios.
Colour	Beige
Shelf Life	Twelve (12) months from date of production when stored as stated.
Storage Conditions	Store in original unopened containers between +10°C and +30°C. Part A is an extremely moisture sensitive compound and should be stored in a safe, cool and dry place.
Solid content by weight	100 %

TECHNICAL INFORMATION

Service Temperature	+5°C to +150°C
Yield	Approximately 1m ² per litre when applied with a 2 mm x 2 mm notched trowel (1 m ² /l/mm thickness).
Ambient Air Temperature	Application Temperature: +15°C to +50°C
Curing Time	Initial cure: 24 hours at 25°C. Final cure: 7 days at 25°C.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Ensure all surfaces to be bonded are of sound construction and are dry, free from oil, grease, dust, dirt, rust, or polish. Concrete must be fully cured (28 days) and dry. Concrete floors must incorporate an effective damp proof course.

MIXING

- Part A and B are packed in the correct proportions.
- ALWAYS MIX WHOLE UNITS.
- Thoroughly stir both parts separately, and then add ALL of Part A to ALL of Part B.
- Using a low speed electric drill fitted with a Sika Spiral Mixer (small), mix for a minimum of 5 minutes at a speed of 300-500 rpm until material is homogeneous and a uniform streak-free colour.
- During mixing, stop and scrape the sides and base of the container to ensure all material is fully mixed.
- Care must be taken to ensure that no air is dragged into the mix by raising the mixer too high when stirring.
- Do not thin Florbond-406.

APPLICATION METHOD / TOOLS

Apply adhesive to surface evenly using a notched trowel. Position material to be bonded as soon as possible after application. Apply pressure, either by roller, block stacking or hot or cold press. Laying sheets of a protective board over the covering will allow traffic to pass over the area while the adhesive cures. For vinyl flooring, refer to the covering distributor for details. A semi-hard serviceable bond is attained after approximately four hours. A hard bond is obtained after 24 hours.

CLEANING OF TOOLS

Use Sika Thinner C to clean up material and equipment. Do not use this solvent on skin. If Florbond-406 is on skin, clean off using warm soapy water.

LIMITATIONS

Concrete surfaces must be totally dry prior to application.

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.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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