

Construction



Structural Bonding in Construction Sika® rigid and elastic Systems

Sika®

Structural Bonding in Construction

Sika® rigid and elastic Systems

Suitability for the Materials and Loadings

The adhesive must be suitable for all of the materials involved and meet all of the requirements for resisting the loads that are to be expected.

Even Distribution of Stress

For a durable bond, an even distribution of stress over the whole of the bond interface is essential.

Bond Performance and Adhesive Layer Thickness

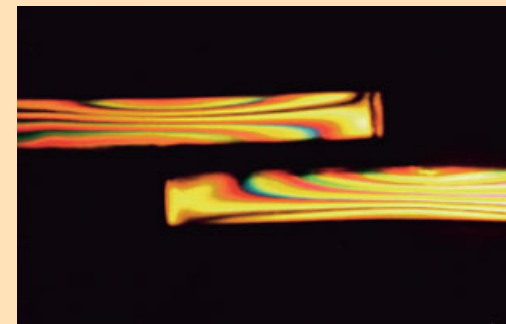
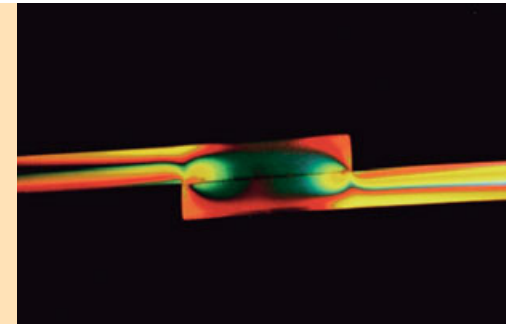
1 to 5 mm thick layers of elastic adhesives show an almost constant and consistent bond strength. Tolerances and precise construction accuracy are therefore not critical. However with rigid adhesives the strength and performance of the joint is very much dependent on the layer thickness.

Substrate Condition and Adhesive Performance










The substrate must have the required load-bearing capacity, be sound, clean, dry and free from any oils or grease, loose or friable particles, and cement laitance must be removed.

Priming

Primers are generally used to improve the adhesion strength, performance and durability between the substrate and the adhesive, especially in difficult environments, e.g. for permanent immersion.



Usage related Requirements

-  Wide adhesive spectrum, elastic bonding
-  Easy application (1-part)
-  Minimizing the effects of substrate variation and tolerances
-  No contact corrosion
-  Dampening of impact noise and vibration
-  Strength (mechanical) and impact resistance
-  Waterproof / UV-resistant / resistant to weathering
-  Low VOC emissions (EC1)
-  Wide adhesive spectrum, structural bonding, rigid bonding



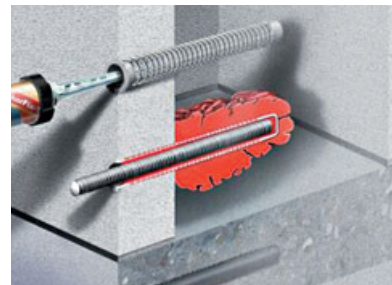
Structural Bonding of Construction Materials



Sika System

■ Adhesive

Sikadur®-31 solvent-free 2-part epoxy resin based adhesive and leveling mortar. For grouting use pourable **Sikadur®-42** epoxy resin grout.



Structural Bonding for Fastening Technology



Sika System

■ Adhesive

Sika AnchorFix®-1/2 solvent- and styrene-free 2-part methacrylate-based polyester adhesive and **Sika AnchorFix®-3/4** 2-part epoxy resin based adhesive for the fixing of all types of anchors, rods and bars, etc.



Elastic Bonding of Construction Materials



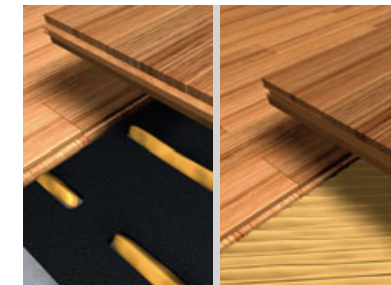
Sika System

■ Primer

See Technical Data Sheet

■ Adhesive

SikaBond®-T2 durable, elastic 1-part PU-based adhesive with excellent adhesion on porous substrates. **SikaBond®-T14** high strength elastic 1-part PU hybrid-based adhesive also with excellent adhesion on non-porous substrates.



Elastic Wood Floor Bonding with integral Sound Reduction



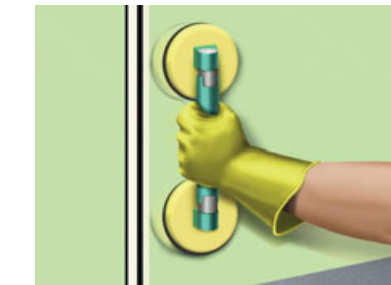
Sika System

■ Primer

Sika® Primer MB Optional (see Technical Data Sheet)

■ Adhesive

SikaBond®-T54 1-part solvent-free, PU-based adhesive, for all types of wood flooring including floor boards, wood block, inlaid wood, engineered wood and laminate flooring. **SikaBond®-T52** 1-part PU-based adhesive for wood and laminate flooring with the **Sika® AcouBond-System**.



Elastic Facade Cladding Panel Bonding



Sika System

■ Substrate

Preparation and primer (see Technical Data Sheet)

■ Double-sided Strip

SikaTack®-Panel Fixing Tape for initial fixing and ensuring the adhesive thickness.

■ Adhesive

SikaTack®-Panel 1-part PU-based adhesive for the elastic bonding of the panels.

For the cost-effective "secret fixing" of facade cladding panels onto their substructure.



Elastic Bonding and Sealing of Tile Floors



Sika System

■ Primer

Sika® Primer MB

■ Adhesive

SikaBond®-T8 1-part, flexible PU-based adhesive for the bonding and sealing of tiled floors.



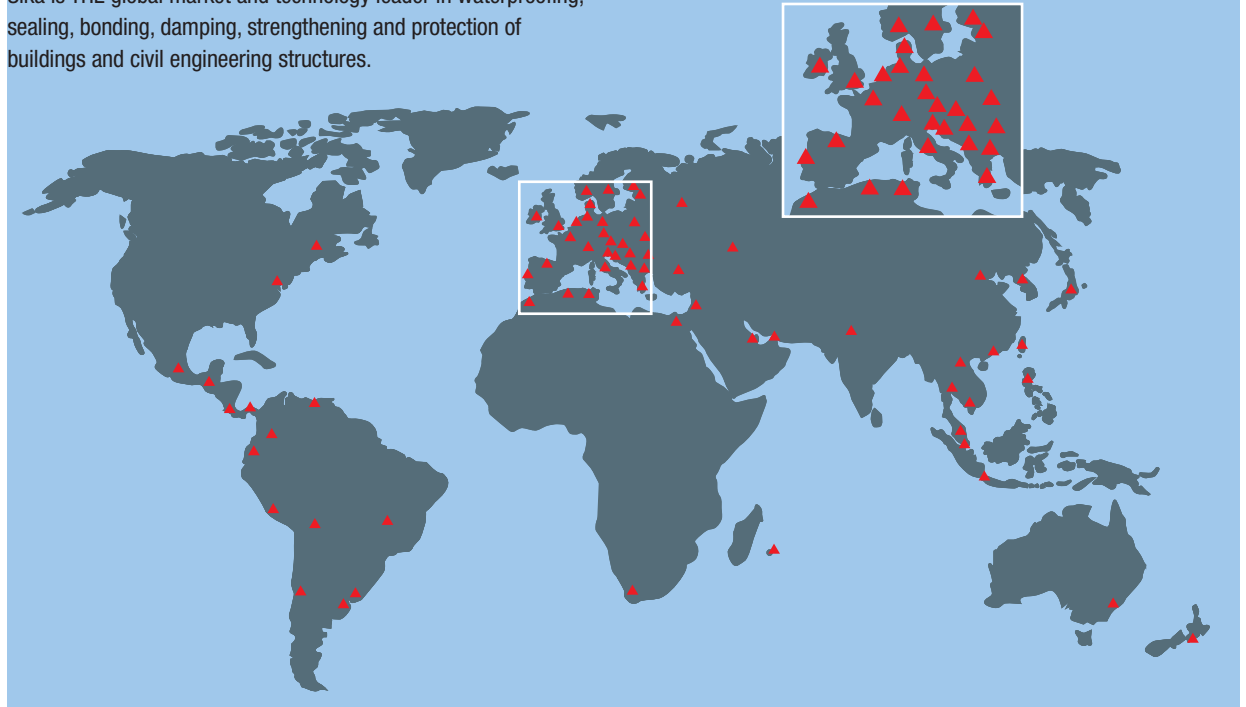
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Sika® rigid and elastic Systems

Sika – Your Local Partner with a Global Presence

Sika is a multinational company in the speciality and construction chemicals business. It has subsidiary manufacturing, sales and technical support facilities in over 70 countries around the world. Sika is THE global market and technology leader in waterproofing, sealing, bonding, damping, strengthening and protection of buildings and civil engineering structures.

Sika has more than 9'200 employees in these subsidiary companies' facilities that are therefore ideally positioned to support the success of our partners – both our suppliers and our customers.



Also available from Sika



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