Sika Solutions for the Elastic Bonding of Wood Floors over Underfloor Heating
Advantages of Sika Elastic Bonding Systems for Wood Floors over Underfloor Heating:

Underfloor heating has the advantage of creating a beneficial climate in rooms together with warm feet during the heating period. The combination of wood floors and underfloor heating is ideal. Wood floors enhance the room with the added comfort of warm feet. The issue of potentially slow heat build up with wood floors, together with many other traditional problems can also be eliminated to a great extent.

High security with elastic SikaBond® adhesives:

Underfloor heating dries out the wooden floor at a faster rate than central heating does. This can cause the wood to shrink more. When wood floors are bonded with elastic SikaBond® adhesives the following advantages are achieved:

Less gap formation between boards, due to the high elasticity and high recovery rate of these adhesives.

No squeaking: As wood shrinks around mechanical fixings (i.e. nails or screws), the wood floor starts to make undesirable noises and ‘squeaks’. This does not happen to elastically bonded wood floors.

No de-bonding: Due to the high elasticity of the adhesives, forces are also transferred less aggressively into the subfloor. This means there is less stress transmitted to the substrate and the boards remain securely bonded in place.

Great versatility:

Sika’s elastic wood floor adhesives can be used over most common underfloor heating systems when installed correctly. This includes electrical underfloor heating as well as warm water pipe systems that are installed in wet or dry screed systems.

Sika’s Elastic Wood Floor Bonding Systems over Underfloor Heating

Maximum underfoot comfort.

Freedom of design.

Warm and good looking floors.

Sika’s Experience:

The high security and site tolerance of these products and the fact that for more than 20 years SikaBond elastic adhesives have been used to bond teak decks on ships and boats. In this environment these products have to withstand severe exposure conditions daily. With such strong product characteristics underfloor heating with wooden floors is not restricting or limiting any longer.

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the Elastic Bonding of Wood Floors

Highest Efficiencies from Underfloor Heating Systems with Elastically Bonded Wood Floors:

Wooden floors have good thermal conductivity:
Wood has good natural thermal conductivity, this means that the warmth is transported through wood better than with many other floor covering materials (i.e. textiles and carpets). SikaBond® elastic adhesives have a very similar thermal conductivity to wood. Therefore Sika wood floor bonding adhesives conduct the warmth up from the underfloor heating with minimal delay.

Sika full surface elastic bonding versus conventional mechanically fixed ‘sleeper’ systems:

- **Thinner** wood floor boards can be used. The warmth is transferred faster.
- **No hollow space** between the subfloor and the wood floor boards. This direct contact enables faster heating of the rooms. As the air is a very good insulator preventing fast heat build up in sleeper systems.
- Through the higher efficiencies, lower power and temperatures are required to heat up the rooms (saving resources, heating and power.)

Ecological Benefits with Sika’s Wood Floor Bonding Systems

Sika’s elastic adhesives products are classified in the lowest class of emission code with EC-1 approval.

Saving natural resources:
Due to the full surface bonding installation with SikaBond elastic adhesives thinner wooden boards can be used- which can save considerable wood resources (even up to 50%).

For the most recent information and details please go to: [www.sika.com](http://www.sika.com) or your countries Sika webpage.
Sika Solutions from Basement to Roof

Concrete Production
- Sika® ViscoCrete®
- Sika® Retarder®
- Sika® SikaAer®

Waterproofing
- Sikaplan®, Sikalastic®, Sika® & Tricosal® Water-stops
- Sika® Injection Systems

Flooring
- Sikafloor®, SikaBond®

Corrosion and Fire Protection
- SikaCor®, Sika® Unitherm®

Concrete Repair and Protection
- Sika® MonoTop®, Sikagard®, Sikadur®

Structural Strengthening
- Sika® CarboDur®, SikaWrap®, Sikadur®

Joint Sealing
- Sikaflex®, Sikasil®

Grouting
- Sikadur®, SikaGrout®

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- Sarnafil®, Sikaplan®, SikaRoof® MTC®

Also Available from Sika

Sika Services AG
Business Unit Contractors
Speckstrasse 22
CH-8330 Pfäffikon
Switzerland
Phone +41 58 436 23 80
Fax +41 58 436 23 77
www.sika.com

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