



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



Innovation & since
Consistency | 1910

Underfloor Heating and Sika Expertise in

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 system when installed correctly. This includes electrical underfloor heating as well as warm water pipe systems that are installed in wet or dry screed systems.

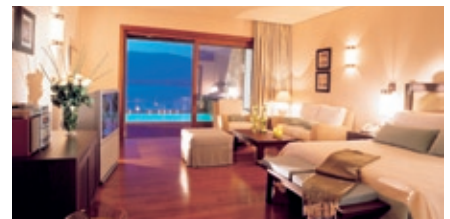
Sika's Elastic Wood Floor Bonding Systems for Floors over Underfloor Heating



Maximum underfoot comfort.



Freedom of design.



Warm and good looking floors.

Sika's Experience:

The high security and site tolerance of these products and 20 years SikaBond elastic adhesives have been used to demonstrate these products have to withstand severe exposure conditions underfloor heating with wooden floors is not restricted.



From the ships decks ...

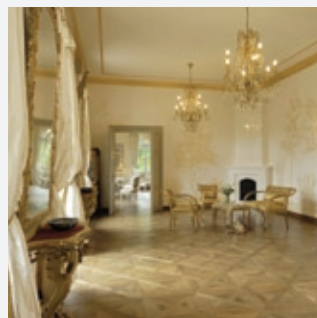
Sika Elastically Bonded Wood Floor Installations over Underfloor Heating

Durable installations in



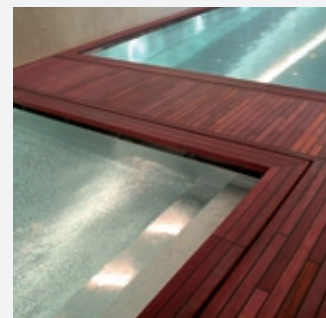
Bars

Large areas – with no joints



Dining rooms

Aesthetic appearance in



Wet rooms

Exquisite appearance



Living rooms

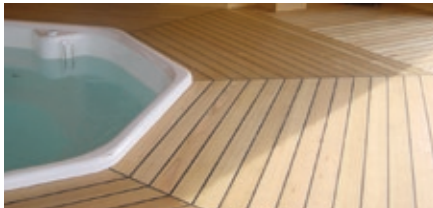


the Elastic Bonding of Wood Floors

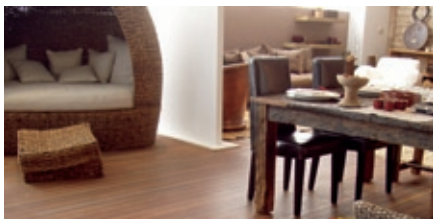
Heating System Makes Wood Floors almost Everywhere:



Underfloor heating for wood floors in suites.



Underfloor heating in wet rooms.



Wood floors in private homes.

are also proven in the marine industry. For more than 30 years, Sika has been able to bond teak decks on ships and boats. In this environment, the conditions are harsh and demanding. With such strong product characteristics, the use of Sika is not restricting or limiting any longer.



... into your underfloor heated bathroom floor

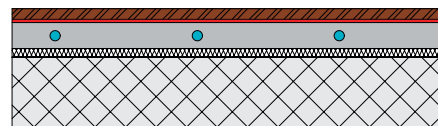
Highest Efficiencies from Underfloor Heating Systems with Elastically Bonded Wood Floors:

Wooden floors have good thermal conductivity:

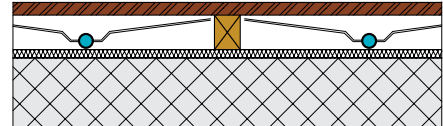
Wood has good natural thermal conductivity, this means that the warmth is transported through wood better than with many other floor covering materials (i. e. textiles and carpets).

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:



Direct full surface bonding



Sleeper system

The efficiency of Sika's full surface bonded 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 or your countries Sika webpage

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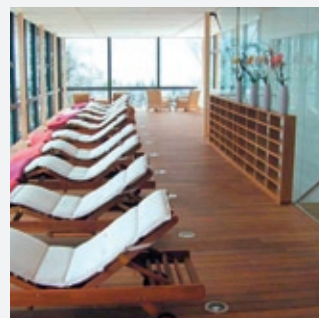
Seamless floors in



Restaurants



Acoustic installation in



Health spa's

Comfort underfoot for



Boutique shops

Durable installation in



Exercise gyms

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



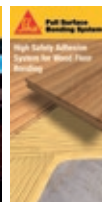
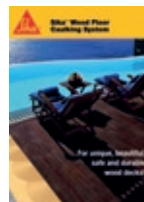
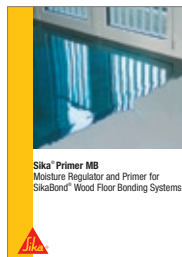
Sikadur®
SikaGrout®

Roofing



Sarnafil®
Sikaplan®
SikaRoof® MTC®

Also Available from Sika



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