Sika® Joint Sealants for Building and Civil Engineering
Sika® Joint Sealants for Building and Civil Engineering

Introduction:
Sika provides a full range of sealants for joint sealing in buildings and civil engineering structures. Included in the range are general purpose construction sealants and virtually “tailor-made” joint sealing solutions for expansion, movement and connection or isolation joints in facades, flooring (including car parks) and even chemically resistant sealants for water and sewage treatment plants, etc. The Sika joint sealant range also contains products for sealing work in interior finishing and for sanitary uses (i.e. in kitchens and bathrooms). Sika also provides specialist high performance systems for extreme conditions of movement or temperature change (Sikadur®-Combiflex® System).

Joint Design and Dimensions
All joint design and dimensioning must be fully in accordance with the relevant standards (i.e. ISO 11600/DIN 18540).

Substrate Quality
Clean and dry, sound, free from oil, grease, dirt and loose particles. Loose paint, laitance and any other poorly adhering particles must be removed. Normal construction standards must be observed.

Primer
A primer has the following functions:
- To improve adhesion
- To prevent sealant contamination of the substrate (i.e. migration)
- To improve the substrate surface

Backin Rod
Joints are “backed” for the following reasons:
- To prevent three-sided adhesion (lowers movement capability)
- To provide the optimum functional joint cross-section

Note: Normally closed-cell, water-repellent, polyethylene foam backer rods should be used.

Sealant Application Methods
After suitable joint design and a correctly prepared substrate, the sealant is “gunned” into place and tooled to a uniform finish with a spatula and/or suitable smoothing liquid.

Sika Solution
Sikaflex® PRO-2HP Sealant
Elastic one-part sealant based on polyurethane for movement joints to DIN 18540.

Sikaflex®-20 AT Sealant
Elastic one-part sealant based on the new Sika PU-hybrid technology (AT=Advanced Technology), especially for non-porous substrates.

Sikasil®-C Sealant
Elastic one-part multipurpose sealant based on neutral curing silicone. Suitable for indoor and outdoor applications. Not compatible with paints.

Sikasil®/Sanisil® Sealant
Elastic one-part sealant based on silicone for isolation/connection joints in “wet” rooms and around sanitary ware.

Sikasil®-C Sealant
Elastic one-part sealant based on neutral curing silicone. Suitable for indoor and outdoor applications. Not compatible with paints.

Sikasil®/Sanisil® Sealant
Elastic one-part sealant based on silicone for isolation/connection joints in “wet” rooms and around sanitary ware.

Sikasil®-C Sealant
Elastic one-part sealant based on silicone for isolation/connection joints in “wet” rooms and around sanitary ware.

Project-based Requirements
Compatibility with paints
High adhesion
1-component product
Waterproof, weather-resistant
ISO/DIN tested
Overpaintable
Chemical resistance
Mechanically resistant
UV stability
Fungicide

Sika Solutions
SikaPlan® Membrane System
To seal around windows and cladding connection joints particularly in ventilated curtain facades.

Sikadur®-Combiflex® System
High performance joint sealing system for high movement, high pressure, highly resistant uses consisting of sealing strip (Sikadur®-Hypalon membrane) and adhesive (Sikadur® epoxy).

Sika® FireSeal-N Sealant
Elastic one-part flame retardant sealant based on neutral curing silicone.

Sikasil®-C Sealant
Elastic one-part sealant based on silicone for isolation/connection joints in “wet” rooms and around sanitary ware.

Sikasil®-C Sealant
Elastic one-part sealant based on silicone for isolation/connection joints in “wet” rooms and around sanitary ware.

Sikasil®-C Sealant
Elastic one-part sealant based on silicone for isolation/connection joints in “wet” rooms and around sanitary ware.
Sika® Joint Sealants for Building and Civil Engineering

Introduction:
Sika provides a full range of sealants for joint sealing in buildings and civil engineering structures. Included in the range are general purpose construction sealants and virtually “tailor-made” joint sealing solutions for expansion, movement and connection or isolation joints in facades, flooring (including car parks) and even chemically resistant sealants for water and sewage treatment plants, etc. The Sika joint sealant range also contains products for sealing work in interior finishing and for sanitary uses (i.e. in kitchens and bathrooms).

Sika also provides specialist high performance systems for extreme conditions of movement or temperature change (Sikadur®-Combiflex® System).

Joint Design and Dimensions
All joint design and dimensioning must be fully in accordance with the relevant standards (i.e. ISO 11600/DIN 18540).

Substrate Quality
Clean and dry, sound, free from oil, grease, dirt and loose particles. Loose paint, laitance and any other poorly adhering particles must be removed. Normal construction standards must be observed.

Sealant Application Methods
After suitable joint design and a correctly prepared substrate, the sealant is “gunned” into place and tooled to a uniform finish with a spatula and/or suitable smoothing liquid.

Introduction:
Sika provides a full range of sealants for joint sealing in buildings and civil engineering structures. Included in the range are general purpose construction sealants and virtually “tailor-made” joint sealing solutions for expansion, movement and connection or isolation joints in facades, flooring (including car parks) and even chemically resistant sealants for water and sewage treatment plants, etc. The Sika joint sealant range also contains products for sealing work in interior finishing and for sanitary uses (i.e. in kitchens and bathrooms).

Sika also provides specialist high performance systems for extreme conditions of movement or temperature change (Sikadur®-Combiflex® System).

Backpacking
Joints are “backed” for the following reasons:
- To prevent three-sided adhesion (lowers movement capability)
- To provide the optimum functional joint cross-section

Note: Normally closed-cell, water-repellent, polyethylene foam backer rods should be used.

Primer
A primer has the following functions:
- To improve adhesion
- To prevent sealant contamination of the substrate (i.e. migration)
- To improve the substrate surface

Sika Application Methods
After suitable joint design and a correctly prepared substrate, the sealant is “gunned” into place and tooled to a uniform finish with a spatula and/or suitable smoothing liquid.

Compatibility with paints
- High adhesion
- 1-component product
- Waterproof, weather-resistant
- ISO/DIN tested
- Overpaintable
- Chemical resistance
- Mechanically resistant
- UV stability
- Fungicide
Sika® Joint Sealants for Building and Civil Engineering

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

Sika Services AG
Corporate Construction
CH-8048 Zürich
Switzerland
Phone +41 44 436 40 40
Fax +41 44 436 46 86
www.sika.com

Our most current General Sales Conditions shall apply. Please consult the Product Data Sheet prior to any use and processing.