

Sika EVA Backing Strip

Semi-rigid closed cell cross linked construction foam

Construction

Positioning

Description

Sika EVA Backing Strip is a semi-rigid closed cell cross linked construction foam. It is available in sheet form or as a rectangular cross sectional strip in a density of 105 kg/m³. Other densities and profiles are available on request.

Use

Sika EVA Backing Strip is designed as a back up support material for surface seals in load bearing joints, e.g. pavements, water retaining/excluding structures, industrial floors and bridge deck joints. Other uses include as a bedding seal under precast concrete panels, vibration absorbing cushion in isolation joints around machinery beds, seismic separation medium between adjoining but independent structures, grout dam to prevent grout loss when joining precast concrete components and as a physical barrier to prevent the ingress of water, dirt, dust and birds under roofing.

Advantages

- Tough, flexible and resilient.
- Bitumen free.
- Non tainting - safe for use in potable water.
- Low absorption of liquids.
- Insulation against both thermal and electrical energy flow.
- Non extruding.
- Will not rot.
- Easily joined on site.
- Quick recovery after compression.
- Flexible at low temperatures (Minus 70°C to 70°C).
- No bond breaker required with elastomeric sealants

Product Data

Form:

EVA Foam

Colour:

Light Grey

Storage/Shelf Life:

Sika EVA Backing Strip has an indefinite shelf life when stored in original, unopened packaging in cool, dry conditions, out of direct sunlight.

Packaging:

- 25 mm x 20 mm x 1 m strip
- 1000 x 1000 x 10 mm sheet
- 1000 x 1000 x 12 mm sheet
- Other sizes and profiles are available on request.

Technical Data

Density kg/m³:

105

Application Conditions

Installation techniques

Cutting:

Sika EVA Backing Strip can readily be cut to size using a sharp knife.

Bonding:

Sika EVA Backing Strip can be joined to itself and most other building materials using Spraytak adhesives. Nailbond SB should be used when a "gap filling" adhesive is required, e.g. for rough or uneven surfaces.

Joint sealing slots:

When forming expansion joints with Sika EVA Backing Strip in in-situ concrete, joint sealing slots can be readily formed as follows:

- Before installing the Sika EVA Backing Strip back up material, cut a strip of Sika EVA Backing Strip of depth equal to the finished sealant depth.
- Install back up strip of Sika EVA Backing Strip material and fix or Spraytak the extra Sika EVA Backing Strip strip back into the joint recess, leaving top edge flush with finished concrete surface.
- To seal the joint, simply remove the top strip of Sika EVA Backing Strip to provide an uncontaminated sealing slot ready for finish preparation and sealing.
- The need for use of an additional bond breaker is eliminated where Sika EVA Backing Strip is used as a joint back up material.



Application suggestions

Sika EVA Backing Strip as a support material for load bearing

surface sealants.

- Surface loadings on sealants are sometimes sufficient to cause displacement of the seal.
- To prevent this a firm load bearing back up support is required.
- Sika EVA Backing Strip is ideal as it permits expansion and contraction of the joint due to moisture and thermal movements whilst providing the support required.
- All sealant joints greater than 10 mm in width in load bearing situations should be supported by Sika EVA Backing Strip.
- Typical situations for this system are: Water retaining/excluding structures, factory floor joints and bridge decks, etc. (For non load bearing situations and joints less than 10 mm wide, use Sika PEF Rod.)
- Joint widths should be designed in increments of 10 mm or 12 mm.
- The installation of Sika EVA Backing Strip in these situations is best carried out during concrete placement.
- Alternatively Sika EVA Backing Strip can be adhesive fixed to the cured concrete face thus eliminating the need to nail fix to framework prior to pouring. (For this method the concrete face must be free from form oils or release agents to ensure good adhesion.)

Seismic separation joints

- Essentially these are used between adjacent structures operating independently as a means of cushioning building components from damaging each other during earthquakes.
- Sika EVA Backing Strip used in this situation acts as a cushion but still allows independent structural movement.

Grout dams for precast concrete construction

- Latest construction techniques make considerable use of off-site factory precast components.
- These components are lifted into position on site, structural steel work is fitted and tied, and components joined using concrete or grout and temporary form work.
- Sika EVA Backing Strip strips may be used as a pressure seal between formwork and precast components to prevent grout loss during grouting.
- Sika EVA Backing Strip may also be used for wall and floor joints in water retaining/excluding structures and bedding seals for concrete precast panels.
- Design compression on Sika EVA Backing Strip strips for use as a bedding seal under precast panels is between 25% minimum and 50% maximum.
- Sika EVA Backing Strip strips can be joined to each other and to concrete using Spraytak, or Nailbond SB.

Vibration damping machine beds

- In many industrial situations it is necessary to isolate machine beds or floors from adjacent areas to prevent or reduce transmission of noise and vibration.
- Sika EVA Backing Strip sheets exhibit excellent “shock absorbing” qualities and are ideally suited to this use.

Important Notes

Limitations

- Sika EVA Backing Strip is not suitable as a joint support under hot poured sealants applied at temperatures exceeding 70°C.

Notes

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.

Health & Safety Instructions

Protective Measures

- To avoid rare allergic reactions, we recommend the use of protective gloves. Change soiled work clothes and wash hands before breaks and after finishing work.
- Local regulations as well as health and safety advice on packaging labels must be observed.
- For further information refer to the Sika Material Safety Data Sheet which is available on request.
- If in doubt always follow the directions given on the pack or label.



Important Notes

- Residues of material must be removed according to local regulations. Fully cured material can be disposed of as household waste under agreement with the responsible local authorities.
- Detailed health and safety information as well as detailed precautionary measures e.g. physical, toxicological and ecological data can be obtained from the safety data sheet.

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.



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