

# Sikadur<sup>®</sup>-51

## Flexible epoxy resin joint sealant

Construction

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| <b>Description</b>            | Sikadur-51 is a 2-component joint sealant of a putty-like consistency based on flexible epoxy resins. After mixing it cures to form a tough but resilient sealant and patching compound.  |
| <b>Uses</b>                   | Sikadur-51 is used for sealing joints with little or no movement, particularly in heavy duty concrete floors and is often used in conjunction with Sikafloor epoxy systems. Sikadur-51 is also useful for sealing cracks in concrete.   |
| <b>Advantages</b>             | <ul style="list-style-type: none"> <li>• Easily applied.</li> <li>• Pre-batched for easy mixing.</li> <li>• Non-sag on vertical surfaces.</li> <li>• Quick setting.</li> <li>• Excellent adhesion to most materials.</li> <li>• Remains flexible.</li> <li>• Good mechanical strength.</li> <li>• Good chemical resistance.</li> <li>• Can be applied to damp substrates (with Sikafloor-94 Primer).</li> </ul> |
| <b>Storage and Shelf Life</b> | Minimum shelf life is approximately 12 months when stored under controlled conditions in original containers (minimum 5°C, maximum 35°C temperature range).   |
| <b>Instructions for Use</b>   |   |
| <b>Surface Preparation</b>    | All surfaces must be clean, sound and free from dust, ice, oils, grease or other surface contaminants such as form release residues and curing membranes.   |
| <b>Mixing</b>                 | Add the entire contents of Part B to Part A and mix with a slow speed electric drill and paddle (400-600 rpm) until a smooth, streak free material is achieved.   |
| <b>Application</b>            | Apply to the prepared joint or crack with trowel, spatula or caulking gun, ensuring the material is fully compacted and firmly in place.  |
| <b>Joint Configuration</b>    | The width: depth ratio for all work should be 1 : 1 to 1 : 2. Minimum gap depth should be 12 mm. Where required to establish correct joint depth, closed cell polyethylene backing rod should be used. When necessary use debonding tape to prevent adhesion to the base of the joint.  |
| <b>Cleaning</b>               | Uncured material may be cleaned from application tools etc. by using Sika Colma Cleaner (flammable solvent). Cured material can only be removed mechanically.   |



**Technical Data (Typical)**

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| <b>Form</b>  | Thixotropic paste   |
| <b>Type</b>  | Flexible epoxy resin  |
| <b>Density</b>                                     | 1.55 kg/litre   |
| <b>Potlife</b>                                     | 2 hours @ 10°C<br>1 hour @ 20°C<br>30 minutes @ 30°C  |
| <b>Cure Rate</b>                                   | For pedestrian traffic: 1-2 days<br>For vehicle loading: 2-6 days<br>(both dependent on temperature)  |
| <b>Shore A hardness</b>                            | 70 - 80   |
| <b>Maximum permissible joint movement capacity</b> | ± 5% of average gap width at time of sealing  |
| <b>Service Temperature</b>                         | -20°C to +50°C  |
| <b>Application temperature</b>                     | +8°C to +35°C   |
| <b>Tensile characteristic</b>                      | 10% elongation at approx. 0.7 MPa   |
| <b>Tensile strength</b>                            | 2.5 MP  |
| <b>Elongation at break</b>                         | 60% approx.   |
| <b>Bond strength to steel</b>                      | 2.5 MPa approx. (sandblasted)   |
| <b>Bond strength to concrete</b>                   | 2.0 MPa approx. (sandblasted)   |
| <b>Packaging</b>                                   | 3 kg net pre-proportioned kits  |
| <b>Important Notes</b>                             | <ul style="list-style-type: none"> <li>• Unsuitable for high movement joints.</li> <li>• Protect from water until hard.</li> <li>• Protect from exposure to chemicals for at least 10 days.</li> <li>• Always mix a full kit to avoid mix ratio errors.</li> <li>• The temperature at which the Sikadur-51 is stored at during the 24 hours before it is mixed will govern it's potlife when mixed.</li> </ul>  |
| <b>Handling Precautions</b>                        | <ul style="list-style-type: none"> <li>• Avoid contact with skin, eyes and avoid breathing it's vapour.</li> <li>• Wear protective gloves when mixing or using.</li> <li>• If poisoning occurs, contact a doctor or Poisons Information Centre.</li> <li>• If swallowed, do NOT induce vomiting. Give a glass of water.</li> <li>• If skin contact occurs, remove contaminated clothing and wash skin thoroughly.</li> <li>• If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.</li> <li>• A full Material Safety Data Sheet is available from Sika on request.</li> </ul>  |
| <b>Important Notification</b>                      | <p>The information, and, in particular, the recommendations relating to the application and end-use of Sika's 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 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 proprietary rights of third parties must be observed. All orders are accepted subject of our terms and conditions of sale. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.</p> <p>PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION.</p> |

# Construction

