

Product Data Sheet

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Sika® Sigunit®-49^{CA}**Sika® Sigunit®-49^{CA}****Caustic- and Calcium Chloride-free Set Accelerating Admixture for Dry Sprayed Shotcrete**

Description	Sika® Sigunit®-49 ^{CA} is a powder form accelerator for dry sprayed shotcrete, improving the application and performance properties. Being caustic- and calcium chloride-free, it is non-corrosive and is suitable for use in contact with reinforcement.										
Where to Use	<ul style="list-style-type: none"> ■ High quality and high initial strength shotcrete for general construction work. ■ Support at the face and securing of rock in tunnel construction. ■ Rock and slope stabilisation along highways and transportation routes. 										
Advantages	<ul style="list-style-type: none"> ■ Chloride-free, suitable for steel reinforced shotcrete and substrates. ■ Measurable reduction of rebound. ■ Improves bond of shotcrete to rock and concrete, making overhead spraying easier. ■ No strength loss of the accelerated concrete when used correctly 										
<table> <tr> <td colspan="2">Typical Data</td></tr> <tr> <td>Packaging</td><td>14 kg (30 lb) bag</td></tr> <tr> <td>Colour and Form</td><td>Off-white powder</td></tr> <tr> <td>Shelf Life and Storage</td><td>1 year in original, undamaged and unopened packaging when stored in dry conditions. Protect from moisture; if damp, discard material.</td></tr> <tr> <td>Application Temperatures</td><td>The concrete temperature should not be lower than 15°C (59°F), when shotcrete is applied in thick layers.</td></tr> </table>		Typical Data		Packaging	14 kg (30 lb) bag	Colour and Form	Off-white powder	Shelf Life and Storage	1 year in original, undamaged and unopened packaging when stored in dry conditions. Protect from moisture; if damp, discard material.	Application Temperatures	The concrete temperature should not be lower than 15°C (59°F), when shotcrete is applied in thick layers.
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How to Use											
Dosage	<p>The exact and most effective dosage must be defined by preliminary testing. It is normally between 0.8 - 5 % by weight of cement. Lower temperatures require higher dosage rates.</p> <p>The mix design for dry process shotcrete is dependent on the quality requirements and method of application.</p> <p>In the dry spray process the quantity of gauging water is a parameter which will influence the acceleration effect of Sika® Sigunit®-49^{CA}.</p> <p>The acceleration effect also depends on cement content, age, type, substrate and shotcrete temperature as well as layer thickness and spraying system.</p>										
Clean Up	Use personal protective equipment (chemical resistant goggles/gloves/clothing). Without direct contact, remove spilled or excess product and place in suitable sealed container. Dispose of excess product and container in accordance with applicable environmental regulations.										
Limitations	<ul style="list-style-type: none"> ■ When applying shotcrete in thicker layers, ensure that the temperature of the substrate is not below 15 °C (59°F). ■ The use of Sika® Sigunit®-49^{CA} requires skilled and technically correct installation of dosing and conveying equipment. Please consult your Sika Canada Technical Sales Representative further information. 										
Health and Safety Information	<p>For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.</p> <p>KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY</p>										

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, within their shelf life. 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 recommendations, or from any other advice offered. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Product Data Sheet for the product concerned, copies of which will be supplied on request or can be accessed in the Internet under www.sika.ca.

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Construction

