

Technical Data Sheet
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Sigunit® -L53 AF MY

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Alkali free liquid accelerator shotcrete admixture

Description	Sigunit®-L53 AF MY is a high-performance, liquid, alkali-free shotcrete accelerator.
Uses	Sigunit®-L53 AF MY is a suitable set-accelerator for dry-process as well as for wet-process shotcreting. The main fields of application for Sigunit®-L53 AF MY are: <ul style="list-style-type: none"> ■ Securing of rock in tunnel mine construction ■ Rock support and slope protection ■ High-quality lining shotcrete
Characteristics / Advantages	Particularly outstanding advantages of Sigunit®-L53 AF MY shotcrete accelerator are: <ul style="list-style-type: none"> ■ Alkali-free. ■ If correctly used, marginal loss of strength of the shotcrete. ■ No added pollution to mountain water and underground water by leached-out alkalis. ■ Distinctly visible reduction of dust formation. ■ Easier overhead spraying by improved shotcrete adherence to rock and concrete ■ Chloride-free, does not attack steel.
Product Data	
Form	
Appearance / Colours	Liquid, yellowish
Packaging	200 litre drums 1000 litre bulk
Compatibility	Use of suitable superplasticiser (such as Sika Viscocrete® SC 305 ID) and setting stabilizer (such as SikaTard® -930) is strongly recommended. For specific application, additional admixtures/additives can be used, for example: <ul style="list-style-type: none"> ■ SikaPump® for demanding pumping situations ■ SikaFume® for high strength, low rebound spray
Storage	
Storage Conditions / Shelf Life	6 months from the date of production if stored properly in original, unopened and undamaged sealed packaging in dry conditions.



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Technical Data

Chemical Base	Inorganic substance
Density	1.38 - 1.40 kg/lt

System Information

Dosage	In general a dosage 3 - 7% by weight of cement. The most effective dosage must be determined by site trials.
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Application Instructions

Dispensing	The exact dosage must be determined by preliminary testing. For layers up to 15 cm thickness in 1 pass the dosage is in the range of 3 – 6 % by weight of the binder cement. Sigunit®-L53 AF MY is dosed by means of a peristaltic pump such as Aliva AL-403.
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Optimal atomisation of Sigunit®-L53 AF MY and its mixing with the shotcrete mix must be ensured.

Concrete temperature should not be lower than +15°C (especially so for thick layers). Lower temperatures require higher dosages.

Cleaning of Tools	Clean all tools and application equipment with water immediately after use. Hardened and/or cured material can only be removed mechanically.
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Notes on Application / Limitations

- Sigunit®-L53 AF MY is compatible with all types of ordinary Portland Cement and standard cement replacement materials.
- Accelerator hoses must be thoroughly cleaned before using Sigunit®-L53 AF MY .
- Metal parts of the pump coming into direct contact with Sigunit®-L53 AF MY must be made from stainless steel
- The set-accelerating effect depends on cement content, cement age, cement type, temperature of shotcrete and substrate as well as on layer thickness and shotcreting method. A further efficiency parameter of Sigunit®-L53 AF MY is the w/c ratio of the concrete mix in wet-process shotcreting, or the quantity of water added at the nozzle in dry-process shotcreting
- Stir well before use !

Value Base

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.

Health and Safety information

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 (available on request) containing physical, ecological, toxicological and other safety-related data.

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 product 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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