

PRODUCT DATA SHEET

Sika® Sigunit® L-2655 AF

Colloidal alkali free liquid shotcrete accelerator

DESCRIPTION

High-performance liquid alkali-free shotcrete accelerator.

USES

The main fields of application for Sika® Sigunit® L-2655 AF are:

- Temporary support in tunneling
- Rock support and slope protection
- High-quality lining shotcrete

FEATURES

Sika® Sigunit® L-2655 AF has the following characteristics and advantages:

- High early strength development
- Alkali-free
- Minimal strength loss of the accelerated concrete
- No pollution of groundwater by leached out alkalis
- Distinct reduction of rebound and dust
- Improved bond of shotcrete to the substrate
- Chloride-free, no negative affect the reinforcement steel

CERTIFICATES AND TEST REPORTS

 CE Marking and Declaration of Performance to EN 934-5 - Admixtures for sprayed concrete - Set acceleration admixtures

PRODUCT INFORMATION

Packaging	IBC and Tanker truck
Appearance and colour	Light grey viscous suspension
Shelf life	3 months from date of production
Storage conditions	Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +30 °C. Always refer to packaging / labelling. Use clean containers when delivered in bulk. If separation of Sika® Sigunit® L-2655 AF occurs, the suspension must be completely mixed before using. Do not store in standard steel containers.
Density	$1,51 \pm 0,03 \text{ kg/dm}^3$
pH-Value	3 ± 0,5
Conventional dry material content	51 ± 2,55 weight- %
Total chloride ion content	<0,10% by weight
Equivalent sodium oxide	<0,50% by weight

PRODUCT DATA SHEET
Sika® Sigunit® L-2655 AF
September 2025, Version 01.01
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TECHNICAL INFORMATION

Specific advice	Sika® Sigunit® L-2655 AF is added at the nozzle. Accurate and constant dosing into the concrete flow is essential.
Concrete mix design	The suitability of the proposed mix design must be tested in field trials before commencement of the project. High quality shotcrete requires a w/c ratio of less than 0,5 and a flow table spread of more than 500 mm. Temperature of concrete mix must be higher than 15 °C.
Substrate	The substrate must be clean, free of loose stones and free of water under hydrostatic pressure.

APPLICATION INFORMATION

Recommended dosage	The correct dosage must be determined by preliminary testing. For layer thicknesses of up to 10 cm applied in one pass, the recommended accelerator dosage is between 3 % and 9 % by weight of binder. Lower ambient
	and concrete mix temperatures require higher dosage of accelerator.
Restrictions	Sika® Sigunit® L-2655 AF is not mixable with alkaline aluminate / silicate based admixtures or additives.
Equipment	 Before using Sika® Sigunit® L-2655 AF the accelerator hoses must be cleaned thoroughly. The steel quality of metal parts witch comes in contact with Sika® Sigunit® L-2655 AF should be made in stainless steel.

BASIS OF PRODUCT DATA

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.

IMPORTANT CONSIDERATIONS

- The accelerator's effect depends on the content, age and type of cement, as well as on the shotcrete temperature.
- Shotcrete quality is widely affected by the substrate, the applied layer thickness, the spraying process, the quality of equipment and the application technique.
- When using sulphate resistant cements strength development can be slower.
- The use of Sika® Sigunit® L-2655 AF requires technically correct dosing and conveying / spraying technology.
- Stir product before use, avoid air intrusion.
- Pre-trials with Sika® Sigunit® L-2655 AF, were pump capacity, air content, and concrete mix design is optimized, shall always be performed in advance to evaluate that desired properties of wet and hardened concrete is fulfilled.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

LEGAL NOTES

Any information or suggestions for use concerning Sika's products, which we either in writing or orally have given buyers or end-users of the product, have been given in good faith based on our own experiences and based on approved praxis and the technological and scientific knowledge on the time of giving such suggestions and information, which are given without any type of guarantees, and which do not lead to any further responsibility from Sika Danmark A/S, besides what is stated in the sales agreement in question. The buyer or end-user should themselves investigate or otherwise make sure, that our products are suitable for the use in question and further make sure that the products are kept and used correct and in agreement with the published rules and considering the actual conditions in order to avoid damages or less satisfactory results. Any order is accepted and any deliverance is affected according to the general terms of sales and delivery from Sika Danmark A/S, which are



considered known and accepted, and which could be handed out when asked for. Our catalogues are not up-dated automatically. The present product data sheet is only for use in Denmark. Values stated in the present product data sheet should be seen as recommended, unless stated otherwise.

Sika Danmark A/S

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