

PRODUCT DATA SHEET

SikaSwell®-1 Rapid NS

Non-swelling, fast curing joint mastic

PRODUCT DESCRIPTION

SikaSwell®-1 Rapid NS is a 1-part, fast curing, non-swelling adhesive with very high initial grab which bonds most common construction substrates. Used for adhering SikaSwell® Profiles within construction joints.

USES

Fixing / Adhering swellable profiles:

- SikaSwell® A Profiles
- SikaSwell® P Profiles

CHARACTERISTICS / ADVANTAGES

- Fast Curing
- Early handling after 20 min
- 1-part, easy and fast to apply
- Highly economical joint sealing solution
- Versatile solution for joints and details
- Permanently water resistant (wet & dry cycles)
- Good adhesion to various substrates

APPROVALS / STANDARDS

Tested alongside SikaSwell A-Profiles to Vattenfall test for hydrophilic waterstops. Report No. 2278-61

PRODUCT INFORMATION

Chemical Base	Silane terminated polymer
Packaging	600 ml unipacs - 20 unipacs / box
Appearance / Colour	Black
Shelf Life	12 months from the date of production
Storage Conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +25 °C. Always refer to packaging
Density	~1.50 kg/l (ISO 1183-1)

TECHNICAL INFORMATION

Shore A Hardness	~55 (after 28 days) (ISO 868)
Tensile Strength	~2,5 N/mm ²
Elongation at break	~350 %
Service Temperature	-40 °C min. / +60 °C max.

APPLICATION INFORMATION

Sag Flow	~1 mm (20 mm profile, 23 °C)	(ISO 7390)
Consumption	10mm bead delivers 6lm / 600ml Sausage	
Curing Rate	~4 mm/24 h (23 °C / 50 % r.h.)	(CQP 049-2)
Skin Time	~12 min (23 °C / 50 % r.h.)	(CQP 019-1)
Ambient Air Temperature	+5 °C min. / +35 °C max.	
Substrate Temperature	+5 °C min. / +35 °C max., min. 3 °C above dew point temperature	

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.

LIMITATIONS

SikaSwell®-1 Rapid NS should not be used on its own within joints or around pipe penetrations. Must be used in conjunction with SikaSwell A profiles for joint sealing.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

All site work must be undertaken by suitably qualified personnel only.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

The substrate must be sound, clean, dry or matt damp and free from all surface contaminants that could impair the adhesion of the sealant.

APPLICATION METHOD / TOOLS

Bonding Procedure After the necessary substrate preparation, prepare the end of the cartridge before or after inserting into the sealant gun then fit the nozzle. Apply in triangular beads, strips or spots at intervals of a few centimetres each. Use hand pressure only to fix the components to be bonded into position before skinning of the adhesive occurs. Incorrectly positioned components can easily be unbonded and repositioned during the first few minutes after application. If necessary, use temporary adhesive tapes, wedges, or supports to hold the assembled components together during the initial curing time.

Fresh, uncured adhesive remaining on the surface must be removed immediately.

Final strength will be reached after complete curing of SikaSwell®-1 Rapid NS, i.e. after 24 to 48 hours at +23 °C, depending on the environmental conditions and adhesive layer thickness.

IMPORTANT

Ensure good compaction during placement compact the fresh concrete well around the SikaSwell® to ensure a good dense concrete without voids or honey-combs.

SikaSwell®-1 Rapid NS WITH A SIKASWELL® PROFILE

Apply SikaSwell®-1 Rapid NS in a narrow bed (size of triangular section ~10 mm) onto the prepared substrate. Extrude enough material to level the roughness of the substrate.

1. Press the SikaSwell® A profile or SikaSwell® P profile firmly into the fresh applied SikaSwell®-1 Rapid NS. The profiles must be placed within maximum 20 minutes (at +23 °C / 50 % r.h.).
2. Ensure full and continuous contact between the SikaSwell®-1 Rapid NS and both the SikaSwell® profile and the substrate is achieved.
3. Allow SikaSwell®-1 Rapid NS to harden for 4 hours before placing concrete. For pouring height > 50 cm, SikaSwell®-1 Rapid NS must harden for at least 6 hours before placing concrete.
4. Protect the SikaSwell®-1 Rapid NS against water (for example rain) until the concrete is placed.
5. During placement compact the fresh concrete well around the SikaSwell® profile.

SikaSwell® profiles require a minimum of 75mm Reinforced concrete cover.

CLEANING OF TOOLS

Clean all tools and application equipment immediately after use with Sika® Thinner C. Hardened material can only be removed mechanically.

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.

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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Product Data Sheet
SikaSwell®-1 Rapid NS
May 2023, Version 01.02
020703300110000003

SikaSwell-1RapidNS-en-GB-(05-2023)-1-2.pdf