

## PRODUCT DATA SHEET

# SikaFast®-5211 NT

Fast curing, flexibilized, 2-component structural adhesive

**TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)**

Properties	Component A SikaFast®-5211 NT	Component B SikaFast®-5200
Chemical base	Acrylate	
Color (CQP001-1)	White	Black
	mixed Grey	
Cure mechanism	Radical polymerisation	
Density	1.15 kg/l	1.5 kg/l
	mixed (calculated) 1.19 kg/l	
Mixing ratio	by volume	10 : 1
	by weight	10 : 1.3
Consistency	Thixotropic paste	
Application temperature	5 – 40 °C	
Open time (CQP526-2)	3 minutes <sup>A</sup>	
Fixing time	time to reach 80 % of torsional strength 9 minutes <sup>A</sup>	
Shore A hardness (CQP023-1 / ISO 48-4)	90	
Shore D hardness (CQP023-1 / ISO 48-4)	50	
Tensile strength (CQP036-1 / ISO 527)	10 MPa <sup>A</sup>	
Elongation at break (CQP036-1 / ISO 37)	200 % <sup>A</sup>	
E-Modulus (CQP036-1 / ISO 37)	250 MPa <sup>A</sup>	
Tensile lap-shear strength (CQP046-6 / ISO 4587)	10 MPa	
Glass transition temperature (CQP509-1 / ISO 6721-2)	60 °C	
Service temperature (CQP513-1)	-40 – 80 °C	
Shelf life	syringe	15 months <sup>B</sup>
	cartridge	9 months <sup>B</sup>
	pail / drum	12 months <sup>B</sup>
		9 months <sup>B</sup>

CQP = Corporate Quality Procedure

<sup>A</sup>) 23 °C / 50 % r.h.<sup>B</sup>) stored below 25 °C and not exposed to direct sun light
**DESCRIPTION**

SikaFast®-5211 NT is a fast curing, flexibilized, structural, two-part adhesive system, which is based on Sika's Acrylic Double Performance (ADP) polymer technology.

Uncured SikaFast®-5211 NT is a pasty, non-sagging, hardly inflammable material which allows an easy and precise application. Thanks to its fast cure it allows for fast handling of bonded components. The broad adhesion range enables to bond diverse materials and to replace mechanical fixing.

**PRODUCT BENEFITS**

- Strength development within minutes after application
- Adhesion to a wide range of substrates without or with limited surface preparation
- High strength and impact resistance
- Solvent and acid free
- Lower odour than products containing MMA
- Easy mixing

**AREAS OF APPLICATION**

SikaFast®-5211 NT is a fast curing, flexibilized structural adhesive designed to replace mechanical fixings such as rivets, screws or welding. It is suitable for high strength fastening of concealed joints and exhibits very good adhesion on different types of substrates including metals, top coats, plastics, glass, wood, etc. This product is suitable for experienced professional users only. Tests with actual substrates and conditions have to be performed ensuring adhesion and material compatibility.

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## CURE MECHANISM

SikaFast®-5211 NT cures according to radical chain polymerization.

Open and fixture time are influenced by mixing ratio deviations as well as temperature, e.g., as higher the temperature as shorter the open and fixture time and vice versa.

Adjustment of the bonded assembly is only possible within the open time.

## CHEMICAL RESISTANCE

In the view of potential chemical or thermal exposure, it is required to conduct a project related testing.

## METHOD OF APPLICATION

### Surface Preparation

Surfaces must be clean, dry and free from grease, oil and dust. Remove all loose particles or residues by cleaning it thoroughly, for example with an IPA wipe.

For best adhesion performance on non-porous substrates pre-treat the bonding area with Sika® ADPrep prior to the bonding process.

Due to the diversity of materials, preliminary tests with original substrates are necessary.

### Application

SikaFast®-5211 NT is applied with a mixing ratio of 10:1 by volume through a 24 elements static mixer. If applied in large masses, heat is generated by the exothermic reaction. To avoid excessive temperature increase, bond line thickness is limited to 3 mm, but must measure at least 0.5 mm.

Optimum temperature for the bonding process is between 15 °C and 25 °C. The approved temperature range for substrates and adhesive is between 5 °C and 40 °C. The influence of the reactivity by temperature changes has to be respected.

After the open time has elapsed the bonded parts must not be moved against each other anymore. When the fixture time is reached the parts can be moved if no additional stress is distributed to the bond line. For support in evaluation of the appropriate application equipment contact the Sika System Engineering department of Sika Industry.

### Removal

Uncured excess of SikaFast®-5211 NT can be removed easily before curing with a dry wipe, with Sika® Remover-208 or another suitable solvent. Once the adhesive is cured it can only be removed mechanically.

Hands and exposed skin shall be washed immediately using Sika® Cleaner-350H towels or a suitable industrial hand cleaner and water.

Do not use solvents on skin.

### FURTHER INFORMATION

The information herein is offered for general guidance only. Advice on specific applications is available on request from the Technical Department of Sika Industry.

Copies of the following publications are available on request:

- Safety Data Sheets

### PACKAGING INFORMATION

SikaFast®-5211 NT

Syringe	10 ml
Dual cartridge	250 ml

SikaFast®-5211 NT (A)

Pail	20 l
Drum	169 l

SikaFast®-5200

Pail	18 l
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## BASIS OF PRODUCT DATA

All technical data stated in this document are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## HEALTH AND SAFETY INFORMATION

For information and advice regarding transportation, handling, storage and disposal of chemical products, users shall refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety-related data.

## DISCLAIMER

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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