

Strata Bond 1C-100-II is a single component, water reactive, expanding polyurethane resin. It is suitable for gas sealing and water stopping, crack injection, consolidation of the medium-fine sands and soil. System is insensitive for water impurities.

Advantages

- Adjustable setting time with Add Fast 1C
- CFC, phthalate free
- Low initial viscosity
- Excellent mechanical properties
- Good adhesion to the substrate in wet and dry condition
- Environmental friendly

Components

	Unit	Strata Bond 1C-100-II
Appearance	-----	Dark brown liquid
Density at 20 [°C]	[g/cm ³]	1.15±0.02
Viscosity at 25 [°C]	[mPas]	300±70
Viscosity at 10 [°C]	[mPas]	1600±100

Material Properties

Reaction parameters for wet conditions:

	Unit	20 [°C]			10 [°C]		
Add Fast 1C	%	1	2	5	1	2	5
Start time	[s]	30±6	15±5	10±3	45±6	15±6	10±6
End time	[s]	150±10	45±5	35±5	230±10	50±10	40±5
Max. temp.	[°C]	< 80	< 80	< 80	< 80	< 80	< 80
Foam factor *	----	15-25	30-35	40-45	15-25	25-35	30-40

Results at 20 and 10 [C] deg., with 10% of water.

* Foam factor depends on an amount of the water and ground structure.

Environmental Impact

Test	Procedure	Results
An influence of the resin on the ground water	DIN 19631 DIBt Berlin	Marginal increase of TOC value. No limiting or toxicological effects on the decomposing microorganism. Aromatic amines - all values below the respective limits of determination
Drinking water test	KTW guideline	Values below prescribed limit values of KTW guideline. Aromatic amines - all values below the respective limits of determination

Application

Strata Bond 1C-100-II may be pumped using a single component or two component pump as commonly used in the mining and tunnelling industry. Before an application Strata Bond Add Fast 1C shall be added and vigorously mixed.

Cleaning of the Injection Pump and Accessories

The cleaning of the application equipment must be carried out thoroughly with great attention. Pumping system, valves, mixing equipment and hoses must be cleaned immediately after the injection process has been completed. Thoroughly rinse the components that have not yet been reacted with a gasket-friendly cleaner, change the cleaning liquid several times during each cleaning process and collect it for disposal. Reacted resin can only be etched and mechanically removed. To be sure, read the technical description of the injection pump and the data sheet of the cleaner used, carefully. Please refer to the pump manufacturer's operating manual for detailed instructions.

Packaging

Type of packaging	Weight [kg]	Catalogue number
Plastic container	25	SB-1C-100-II-25P
Metal drum 20 [I]	20	SB-100-II-20M
Metal drum 200 [I]	200	SB-100-II-200M

Storage and Transport Conditions

Resin component is delivered in canisters - made of plastic or sheet metal - (other packaging is possible on request). The recommended storage in dry and airy rooms, at a storage temperature of 10[°C] to 30[°C]. The guaranteed shelf life from the date of manufacture is 12 months only in unopened original packaging.

Tests and Approvals

1. "Examination of an elution behaviour of the polyurethane-based injection resin". Ecotoxicological effects investigation on ground water. MFPA Leipzig GmbH, April 2021.
2. "Investigation of the elution behaviour of a polyurethane based resin based on coating and KTW guidelines". MFPA Leipzig GmbH, May 2021.

Environment and Safety Instructions

Empty containers back to the production site or to the distribution depots. Please refer to the safety data sheets for information on the disposal of the remaining materials, as well as of the empty containers.

During application of our products, the applicator is obliged to comply with the applicable protective regulations and with the safety data sheets of DSI Schaum Chemie. According to Annex II of EU Regulation 1907/2006, the safety data sheets must be available to all persons responsible for occupational safety, health protection and handling of the materials. Processing and cleaning of the equipment may only be carried out in protective clothing with safety can be disposed of within national regulation via local disposal companies, subject to their terms and conditions. The materials will not be taken

gloves and safety goggles. According to current knowledge, the use of a suitable skin protection cream is recommended. Skin contamination must be cleaned with soap and water. If splashes get into the eye, it must be immediately rinsed with water and a doctor must be consulted without delay. The material must not be allowed to enter the sewage system or the ground in unmixed condition.

Liability Disclaimer

The information in this leaflet is based on our knowledge and experience at the time of printing, as stated above. Therefore, please make sure that you always use the latest version hereof. The general description of product use in this leaflet cannot take into consideration special conditions and circumstances that may arise in individual cases. Therefore, please check our product in each case for its suitability for the specific application before use. The application, use and processing of our product are naturally beyond our control. They are therefore exclusively the responsibility of the customer, as is the processing result achieved on the basis of our technical application information.

The applicator is responsible for checking whether the product in question is suitable for the specific application in each case of use.

All information contained in this leaflet is provided for informational purposes only and is subject to change without notice. Since the producer cannot anticipate or control the conditions under which this information and its products will be used, each user is responsible for reviewing the information in the specific context of the intended application.

No statement in this leaflet constitutes a warranty in the legal sense.