

PRODUCT DATA SHEET

SikaFix[®]-621 Strata Bond

FIRE RESISTANT INJECTION SYSTEM BASED ON UREA SILICATE TECHNOLOGY FOR MINING AND TUNNELING

DESCRIPTION

SikaFix[®]-621 Strata Bond is a two component (1:1 by volume) fire resistant injection system using a two-component injection pump coupled with a static in-line mixer head; based on urea silicate technology. It is designed to rapidly stabilize strata and coal by giving them structural strength and flexibility.

In addition to being fire resistant due to its unique silicate chemistry, the maximum exotherm reached during crosslinking is well under the maximum 150°C allowed as specified by the NSW Government Trade and Investment Mine Safety Guideline MDG 3608 August 2012, Appendix D1-TM003

USES

- Rapid stabilisation and strengthening strata and coal
- Rapid consolidation of other substrates such as sand, gravel, fractured road rock etc.
- Crack repairs above and below water

CHARACTERISTICS / ADVANTAGES

- Fire resistant due to its unique silicate chemistry
- Very fast reactivity with structural strength and resiliency
- Suitable exothermic behavior for use in coal mines.
- Same reaction and cured properties in dry or underwater situations
- Penetrates cracks greater than 0.15mm
- Does not expand its cured volume. Does not absorb water
- Very good adhesion to wet surfaces

PRODUCT INFORMATION

Appearance / Colour	Part B : Opaque Liquid Part B : Brown Liquid
Shelf Life	12 months from the date of production when undamaged and unopened containers
Storage Conditions	Store in dry condition within temperature range +5 °C to 35 °C. Beware of frost sensitivity of Part A.
Density	Part A : 1.48 g/mL Part B : 1.24 g/mL
Flash Point	Part B : Not Applicable Part B : >200 °C
Viscosity	Part A : 400 cps Part B : 200 cps

TECHNICAL INFORMATION

Workability Time	(at +25 °C)	~2.5 minutes from mixing
	(at +40 °C)	~1.0 minutes from mixing
Exothermic Cure	Starts after 4 minutes	
Border Time	5 minutes (time to reach 1 Mpa adhesive strength, at +25 °C)	
Hard and Tough	~5 minutes	
Maximum Bond to Substrate	Attained within 2 hours	
Compressive Strength	~30 Mpa	After 1 hour
	~45 Mpa	After 24 hours
	~50 Mpa	After 7 days

APPLICATION INSTRUCTIONS

CLEANING OF TOOLS

- For short breaks, pump only Part A through the mixer.
- For long breaks (e.g. storage, or after job done) pump clean water through Part A pump/injection lines; and pump clean engine oil through Part B pump/injection line.

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.

LOCAL RESTRICTIONS

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

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.

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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