

## Product Data Sheet

### Barrikade EP- Betonglim

#### StoPox BG 100

# Barrikade®

#### Product description:

**Barrikade EP-Betonglim** is a two component solvent free epoxy adhesive

#### User areas:

**Barrikade EP-Betonglim** can be used as an adhesive for gluing concrete to concrete and concrete to other material such as steel. Fresh uncured concrete can be glued to existing concrete so that the construction will be monolithic.

- Repair of concrete
- Casting of new concrete on old concrete
- Construction joints
- Casting concrete on steel
- Gluing of reinforcement bars
- Anchoring of bolts etc
- Gluing of ceramic tiles

#### Properties

**Mechanical:** With **Barrikade EP-Betonglim** a very good adhesion to the substrate can be achieved, provided that the correct surface preparation is used.

When gluing fresh concrete to existing concrete the strength of the joint will be much higher than that of a normal concrete.

Mechanical properties	Test metode	Test results
Adhesive strength (N/mm <sup>2</sup> )		
-dry concrete	-	4,0*
-moist concrete	-	4,0*
Compressive strength (N/mm <sup>2</sup> )	NBI 66/73	90
Flexular strength (N/mm <sup>2</sup> )	NBI 66/73	44
E-Modulus (N/mm <sup>2</sup> )	NBI 66/73	5950

\* Failure of concrete

(Test made after 7 days curing at 23° C)

NB The curing of epoxy in general is strongly linked to temperature in air and surface both during application and curing periode.

**Chemical:** **Barrikade EP-Betonglim** has very good chemical resistance, is water proof and acts as protection against corrosion..

**Thermal:** **Barrikade EP-Betonglim** loose its mechanical adhesive properties at temeratures above +50-70°C. However when colling off the glue will regain its original properties.

#### Tecnical data:

<b>Type:</b>	2-component epoxy
<b>Dry content:</b>	100%
<b>Specific weight:</b>	1,53 g/cm <sup>3</sup>
<b>Consistency:</b>	Creamy paint
<b>-standard system</b>	4500 cp ved 23° C
<b>-slow curing system</b>	2800 cp ved 23° C
<b>Colour:</b>	Grey
<b>Mixing ratio Standard system:</b>	
<b>-weight</b>	Comp.A : comp.B = 7,3 : 1,0
<b>-volume</b>	Comp.A : comp.B = 3,9 : 1,0
<b>Slow curing system:</b>	
<b>-weight</b>	Comp.A : comp.B = 7,3 : 1,0
<b>-volume</b>	Comp.A : comp.B = 3,9 : 1,0
<b>User/curing time Standard system:</b>	
<b>-20°C</b>	User time: Ca 15 min./curing time: 3 days
<b>-10°C</b>	User time: Ca 30 min./curing time: 6 days
<b>Slow curing system:</b>	
<b>-20°C</b>	User time: Ca 80 min./curing time: 7 days
<b>-10°C</b>	User time: Ca 160 min/curing time:14 days
<b>Application temperatur:</b>	Min. 10° C (air/surface)
<b>Packaging:</b>	4 og 10 kg units
<b>Storage:</b>	Dry, frost free
<b>Storage time</b>	12 months unopened

*The technical data presented here, as well as our instructions and recommendations, are based on numerous tests and on our experience. They are intended to assist the user in finding the most suitable working method and obtain the best possible results. Since the user's working conditions are beyond our control, we cannot accept responsibility for the result the user obtains when using the product.*

*Whenever in doubt – please contact us!*

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#### Work description:

##### Substrate/ surface treatment:

The substrate should be firm, dry and free of grease. On horizontal surfaces there must be no surface water. Dry surfaces provide the best adhesion. Pollutions in the surface must be removed.

##### Concrete

When gluing the concrete skin and concrete with poor quality should always be removed from the contact surface.

Minor preparation work can be done with a chisel, angle grinder or steel brush, followed by thorough wiping or vacuuming.

For larger work the concrete surface can be prepared with a grinding machine, a scouring machine or by shotblasting, followed by vacuum cleaning.

##### Steel

When gluing steel all rust and corrosion must be removed by steel brush, grinding or sandblasting.

Steel prepared to SA 2 ½ (ISO 8501-1) provide the best adhesion.

##### Mixing:

The materials should have a temperature before mixing of min. 10° C. Component B (curing agent) is added and mixed well (3-4 min.) in component A (base).

**NB:** Mixing should be done immediately before use with a mechanical mixer such as an electric drill with a mixing tool.

#### Application:

##### A. Gluing/repair:

**Barrikade EP-Betonglim** is applied evenly and rich to the contact surfaces with a brush, eventually a short hair roller.

When anchoring bolts etc **Barrikade EP-Betonglim** is poured into the bolt hole. The iron is pressed down so that the excess material is pressed out and provide a layer of glue on the surface.

##### B. Adhesioprvider on larger surfaces

**Barrikade EP-Betonglim** is applied evenly and rich on existing concrete with a trowel or a short hair roller.

**NB:** casting of new concrete to be done when glue is still sticky. If not the **Barrikade EP-Betonglim** must be broadcasted with fine sand while it is still wet.

The W/C ratio should be kept at a lower level to achieve excellent adhesion.

#### Cleaning:

Wash hands with special cleanser and thereafter with soap and water. Tools can be cleaned with water.

#### Health and safety

Mandatory and recommended industrial hygiene procedures should be followed whenever reactive resins are being handled and processed. See safety data sheet

StoCretec Flooring AS,  
Værftsgt. 7 A, N-1510 Moss,  
Tel. 69 27 30 00 - Fax. 69 27 46 30  
E-post: [stocretec.no@sto.com](mailto:stocretec.no@sto.com)  
[www.stocretec.no](http://www.stocretec.no)