



Solvent free, Universal Epoxy Bonding Compound for Bonding any two substrates including Concrete Elements, Repair Mortars, Heavy Tiles, Marbles, Granites, Glass, Stones or Waterproofing Tapes

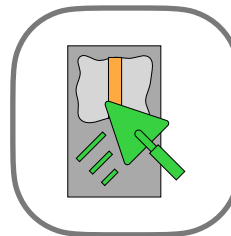
General

SS – StructoBond EP is a solvent free, thixotropic epoxy compound to bond a variety of materials to each other, or to provide a watertight bond between substrates. **SS – StructoBond EP** is a combination [resin and hardener] of high strength bonding epoxy and selected viscosity and bond enhancing fillers. The mixed compound has excellent bonding properties [easily spreads under tools, but does not sag or run out on vertical surfaces], high bond strength, coupled with excellent mechanical properties [high compressive and flexural strengths]. **SS – StructoBond EP** does not shrink, making the joints crack-free and therefore watertight. Thixotropic grade of the product can also be supplied for use as Structural Bonding Adhesive. This system can also be used to bond the **SS - JointSeal T1** expansion joint system to various substrates.

SS – StructoBond EP can permanently bond concrete to mortar, concrete, natural stones or marble to concrete or plaster, glass mosaic to cementitious surfaces or glass, metal to natural stone and is suitable to bond many such combinations. Being OPC / Cement Free, the material prevents iron staining of marble and other natural stones through water transport, thereby maintaining beauty of the fixed stone. The bonding procedure becomes clean and efficient. It can also bond TPO/FPO Tapes and Membranes to substrates. The system is waterproof.

Product Features

- Very High Adhesion strength
- Can be easily applied to vertical surfaces
- High Mechanical Strengths
- Suitable for interior as well as exterior surfaces
- Bonds absorbent as well as non absorbent surfaces
- Permanent watertight bond
- Resistant to Micro-Biological Growth
- Avoids mechanical supports
- Neat and clean bonding
- Prevents iron staining
- Can be applied to substrates with a slightly higher moisture content



Concrete Repair



Areas of Application

- Bonding of Concrete to Subsequent Layers
- Segmental Bonding in Bridges, Tunnels etc. - Thixotropic Grade - **SS - StructoBond SBA**
- As bonding agent between different building materials like concrete, steel, stones, iron, wood, glass, etc.
- For bonding reinforcement such as metal tie-rods, dowels, etc. to natural stones [soft marble, granite, limestone, etc.], concrete or plaster in repair projects
- As chemical/watertight joint filler for natural/stones tiles
- To Bond Waterproof Tape Systems **SS - Joint Seal T1** to various substrates.

Areas of Application

Specification Keywords	Solvent Free, Thixotropic, Bonding Epoxy Compound, waterproof, Bonding Waterproof Expansion Joint Systems
Delivered As	Resin and Hardener
Storage Instructions	Store in a cool and dry area away from sunlight, in original packaging
Shelf Life	12 Months
Post Use	Empty packaging completely. Dispose as per local regulations.
Packing Size	30 kg



Hazards and Safety



Technical Data

Minimum Temperature	+ 5°C
Mixing Ratio	As per written guidelines
Consumption	350 - 550 g/m ² Approx. Depending on Application Substrate
Pot Life	20 - 25 Minutes Based on Ambient Temperature
Compressive Strength	> 75 N/mm ² at 7 Days
Flexural Strength	> 30 N/mm ² at 7 Days
Bonding Strength	> 4 N/mm ² [C] / > 10 N/mm ² [S] On Concrete and on Steel

Instructions for Use

The dry or slightly humid floor/wall should be strong, durable, and free from dust, dirt and release agents. Ensure the surfaces are clean and dry [moisture content < 8%] before application for best results. Always test with a 24-hour cure time to determine consumption, ease of application and desired results. Surface temperature should be > 8°C. The substrate should be of sound nature and adequate strength to carry the load of the tiles / stones.

Empty the Resin and Hardener completely into a clean container and thoroughly mix for 2 to 3 minutes using a low rpm mechanical mortar mixer to obtain a homogeneous consistency. Pour the mixture from one container to another and mix again to ensure homogeneity. Mixing ratio of resin and hardener is as per written guidelines. Empty the packaging completely to ensure correct mixing ratio.

The adhesive is applied to the prepared surface of the stones or concrete segments to one or both faces using suitable trowels. Comb through the material using a notched trowel [used for tile adhesives]. Join the two faces to be bonded with adequate pressure and remove the excess material from the joint, using a trowel. Similar methodology can be used to fill dowel holes or install dowels or tie-rods or jointing of waterproof tapes like **SS - JointSeal T1**. Jointing should be done within the open time and pot life of the adhesive. Let cure in ambient conditions.

Coverage rates of **SS – StructoBond EP** are dependent on texture, temperature and porosity of the substrates and the material.

Safety and Precautions

- Do not use in swimming pools or very wet areas .
- Take safety precautions at all times. Always wear protective goggles, safety shoes, masks and gloves .
- Clean up promptly after job is complete. Clean equipment with water and allow to dry in a well-ventilated area and out of the reach of children and pets. Consult Local, state and federal regulations for proper disposal procedures.
- Higher temperatures considerably shorten the pot life. The material should not be left in direct sunlight. Keep packing closed when not in use to prevent unnecessary evaporation. On return to work the material should be thoroughly re-mixed. Material should not be applied at temperatures under +10°C or over 85% relative humidity.