Solfix SF Polyester Styrene Free Pourable Resin Grout

Description:

Solfix SF Pourable is a two-part concrete repair resin & anchoring system, with extremely high strength in compression and tension making it ideally suitable for anchoring large bolts, starter bars, machinery installations, and ground repair.

Once mixed the formula can be poured into the pre-drilled hole, or the repair area, and has 'self leveling' properties which make it ideal for shuttering, and bedding-in of deep posts. Pre-mixed aggregate and hardener components allow for fast and safe mixing.

- **Single unit packaging.**
- **Easy to mix and easy to apply.**
- **Made from 58% recycled material.**
- **Styrene free for use indoors or outdoors (low odour).**
- **Stronger than cured concrete.**
- **High surface abrasion resistance.**
- **Excellent structural characteristics.**
- **Stronger than cured concrete.**

Container Size
5kg Tub

Coverage
0.8m² at 5mm thickness / 5kg

Typical Uses:

- Can be used for repairs to large cracks in concrete requiring self-leveling characteristics and hard to reach areas.
- Bedding-in of coping stones, concrete units, steel, concrete or wooden posts.
- Anchoring of threaded steel bolts into solid surfaces.
- Typically used on cementitious surfaces.

Shelf Life & Storage:

- Product should be stored between +5ºC and +25ºC.
- Avoid Direct sunlight.
- Storage must be in dry conditions and packaging must remain airtight at all times.
- The shelf life of this product is 24 months from the date of manufacture.

Preparation:

- The application surfaces must be sound, clean and dry, and free from oil, grease, rust, or surface water.
- Smooth surfaces should be abraded beforehand. Always check substrate quality e.g. Concrete surfaces must be in excess of 28 days old.
- Minimum thickness: 5mm application.
- Layers above 30mm build up in stages, observing the relevant gel time between stages.
- Ensure that the product is worked well into all areas when applying to damp surfaces.

Application:

For optimum results, we recommend mixing the complete unit.

Mixing Method:

- Remove the resin and cardboard dividing card from the package. Stir the resin contents thoroughly prior to use.
- Combine all of the resin tin contents with the aggregate mix in the plastic unit and mix until an even consistency is achieved.
- We recommend the use of a slow speed mechanical mixer for 2-3 minutes.

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Concrete repair:

- Remove all the debris and dust from the area to be repaired. Prior to application, the area must be clean, dry, and sound.

Anchoring:

- Drill a hole to the correct diameter and depth. remove dust and debris from the hole by use of a steel brush and push pump.
- Anchoring bars should be free from oil and flaking rust.

Tool Cleaning:

- Use a solvent based thinner on tools with uncured material only.

Technical Data:

Property	Test Method	Value
Compressive Strength *(24 Hours at +20°C)*	EN ISO 604 / ASTM 695	81.64 N/mm^2
Flexural Strength *(24 Hours at +20°C)*	EN ISO 178 / ASTM 795	28.10 MPa
Tensile Strength *(24 Hours at +20°C)*	EN ISO 527 / ASTM 638	15.00 N/mm^2
Flexural Modulus *(24 Hours at +20°C)*	EN ISO 178 / ASTM 795	4366 MPa
E-Modulus (Compressive) *(24 Hours at +20°C)*	EN ISO 527 / ASTM 638	19029 N/mm^2

Gelling & Curing Times:

Property									
Temperature *(°C)*	0**	5*	10	15	20	25	30	35	40
Gel Time *(mins)*	70	58	40	19	15	11	9	6.5	6
Cure Time *(mins)*	110	75	50	25	20	15	12	9	9

* Full Cure is Achieved after 24 Hours.
** Below 5 Degrees the product will naturally become more viscous.

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