

SmartEpoxy GEL

Epoxy Gel

SmartEpoxy GEL is a 100% reactive, 2 components epoxy system designed as a moisture insensitive adhesive and binder for numerous application needs.

FIELDS OF APPLICATION

- Bonding irregular surfaces
- Vertical and overhead repairs
- Anchor bolt and dowel embedment

BENEFITS

- Excellent adhesive for bonding concrete, steel, ceramic or wood
- Moisture insensitive for bonding to dry or damp surfaces
- Bonds fresh concrete toppings to hardened concrete slabs
- Protect concrete substrate against chemical attack
- Form a tough, wear resistant coating
- Sand or aggregate may be added for thick applications / repair

TECHNICAL DATA

Day	Compressive Strength (N/mm ²)	
	Neat	w/Agg
1	58	37
3	65	62
7	82	76
28	85	85

Properties	
Gel Time	60 min
Pot Life	15 min
Bond Strength	18 MPa
Viscosity @ 27°C - IR	4.6 Poise
Density @ 27°C - IR	1,061 kg/m ³
Maximum Load Failed at Threaded Rod (Tensile) - GEL	34 KN

APPLICATION PROCEDURE

SURFACE PREPARATION

- The surface must be structurally sound and free of contaminants such as oil, grease, dust, dirt and debris.
- For best bond, acid etching, sandblasting or other mechanical blasting methods are strongly recommended. All free standing water must be removed.

MIXING

- Thorough and complete mixing is critical. Pour all of Part B (hardener) into all of Part A (resin) and mix with a variable speed hand drill fitted with a mixing paddle.
- Run drill at low speeds to minimize entrapped air. Mix for about 1 to 2 minutes, making sure that all of the Part B material is used.
- When mixing, the paddle should contact the inside surface of the cane circular and up and down motions until a uniform colour is achieved.

BONDING

- Use **SmartEpoxy GEL** for bonding together two highly irregular surfaces.

COATING

- After priming, apply **SmartEpoxy BA** using a roller or squeegee.
- For non-slip surface, allow coating to set and broadcast anti slip aggregates over the surface to desired texture.
- Back-roll sand into coating.
- For vertical and overhead surfaces, use **SmartEpoxy GEL** to prevent sagging.

Vertical and Overhead Repairs

- Use **SmartEpoxy GEL** blended with filler.
- Trowel mortar into repair areas.
- For thin, shallow depth repairs, use neat gel without aggregate.

Anchoring

- For horizontal surfaces, use **SmartEpoxy BA** and for the vertical one, use **SmartEpoxy GEL**.

DISCLAIMER

All information was prepared carefully, using current references available to us. Information provided is to the best of our knowledge and belief, accurate and reliable as of the date indicated. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself/herself as to the suitability and completeness of information provided here for their intended use. We do not accept liability for any loss or damage that may occur from the use of this information.

CURING

- No curing are required as the **SmartEpoxy GEL** is self-curing.
- Keep application area above 4°C for a minimum 7 days after installation.

COVERAGE

Priming	2.5 - 3.0 m ² /litre
Sealing	2.5 - 3.0 m ² /litre
Bonding	Surface Dependent
Coating	Surface Dependent

PRECAUTIONS

- Contain combustible solvent. Keep away from open flames.
- Avoid eye contact and unnecessary skin contact.
- Gloves should be worn.
- In case of eye contact, flush with plenty of clean water. Seek medical help immediately.

PACKAGING & STORAGE

- **SmartEpoxy GEL** is supplied in 4.5 kg set

If stored in a cool and dry place, the self- life is about 9 - 12 months.

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