



SmartFlex GP

Cementitious Waterproofing Membrane

SmartFlex GP is a two-component, flexible cementitious waterproofing membrane. It is reinforced with specially selected and graded fine quartz. When blended, **SmartFlex GP** forms a flexible matrix of polymer and hydrate structures. This provides a breathable membrane which allows water vapour transmission but is impermeable to liquid water. **SmartFlex GP** is easily applied as a slurry onto horizontal and vertical surfaces. No priming is needed as **SmartFlex GP** has good substrate adhesion.

FIELDS OF APPLICATION

SmartFlex GP is typically used in structures subjected to periodic wetness or low hydrostatic pressure such as:

- Bathrooms, Toilets and Kitchens
- Balconies and Planter boxes
- Basement walls

BENEFITS

- Can be applied on damp surfaces
- Crack-bridging ability
- Good substrate adhesion
- Non-toxic, ideal for confined areas
- Flexible and easy-to-apply

TECHNICAL DATA

SmartFlex GP consists of :

- Part A - Milky Liquid
- Part B - Grey Powder

PROPERTY	TYPICAL RESULTS
Adhesion to concrete	≥ 0.5 N/mm ²
Crack Bridging	Up to 0.5 mm
Elongation	Min. 50%
Pot Life	50 minutes
1st coat Dry Time*	2 hours
2nd coat Dry Time*	3 hours

* All the data shown are based on controlled laboratory test (T=27±2°C and RH=60%)

SURFACE PREPARATION

- All concrete substrates must be cleaned to remove contaminants such as oil, grease, dust, laitance, etc.
- Any sharp or uneven surfaces must be leveled by hacking and / or topping of the substrate with a mortar screed.
- Similarly, weak and porous substrates must be made sound by hacking and screeding. If a porous substrate is of acceptable strength, one additional layer of **SmartFlex GP** can be used as a priming coat before the actual application.
- Pre-saturate all substrates with water prior to application. Do not allow ponding of water; use a sponge to soak up excess ponding water.

MIXING

- Pour Part A (Liquid) into a clean container. Stir with a speed drill fitted with a toothed paddle mixer. Use low speed for stirring.
- Pour Part B (Powder) slowly into Part A in the container with the drill mixer on high speed. Avoid lump formation during mixing and move the paddle up & down during mixing.
- Mix until a homogeneous slurry is obtained. Check for any unmixed powder at bottom of the container.
- Each full set of **SmartFlex GP** must be mixed in the proportions supplied i.e. 10 kg Part A (Liquid) to 18 kg Part B (Powder). Mixing in quantities smaller than one set may lead to wrong proportioning and affect the product's performance.
- Dilutions and addition of other materials will also affect the product performance.
- All tools and equipment should be cleaned with water immediately after use. Any hardened material can be scraped off with tools or softened by soaking in thinner.

PLACING

- Mortar fillets should be installed at all wall / floor joints before **SmartFlex GP** application.
- A roller or a broad, soft brush may be used to apply the **SmartFlex GP** slurry on horizontal and vertical surfaces.
- A paint brush should be used in corners and narrow spaces.
- At least 2 layers of **SmartFlex GP** must be applied. The layers should be applied in cross direction to each other.
- Allow sufficient time for **SmartFlex GP** to dry thoroughly before applying the next coat.
- Always apply **SmartFlex GP** on the positive side of the structure i.e. on the side where hydrostatic pressure is anticipated.

CURING & PROTECTION

- Where rain is expected after the application, the **SmartFlex GP** membrane must be protected with polyethylene sheet for a minimum of 12 hours.
- Avoid applying **SmartFlex GP** under strong sunlight. Do not apply **SmartFlex GP** on hot substrates.
- Soft rubber soles (or barefoot) is recommended for walking on the dried **SmartFlex GP** surface.
- After **SmartFlex GP** has cured thoroughly, a protective screed must be installed quickly to protect the membrane from damage.

COVERAGE / YIELD

The mixing ratio is : Part A / Part B = 1 kg / 1.8 kg

For a 2-coat application, the quantity of **SmartFlex GP** required is 2.0 - 2.5 kg per m². When properly mixed, each 28 kg set will yield around 16 litres of **SmartFlex GP** slurry.

PRECAUTIONS

- Avoid eye and skin contact as the product is alkaline.
- Gloves, goggles and dust mask should be worn.
- Wash thoroughly after handling.
- In case eye contact, flush with plenty of clean water. Seek medical help immediately.

PACKAGING & STORAGE

SmartFlex GP is supplied in sets of 28 kg.

Each set consists of:

- 10 kg container of Part A (Liquid)
- 18 kg bag of Part B (Powder)

SmartFlex GP has a shelf life of 12 months if stored in a cool and dry place in sealed packing with sheltered protection from rain and sunlight. Ensure that **SmartFlex GP** is not subjected to freezing during transportation and storage.

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.