PRODUCT DATA SHEET

Issue: April 2023

StrataPrime GC

Primer for use on new concrete substrates

Product overview

StrataPrime GC is a two-component, high-solids, epoxy primer which exhibits excellent adhesive properties. It is ideal for sealing recently cast wet / green concrete prior to installing the StrataShield ProFlex resin system.

Features & benefits

- Ideal for sealing wet / green concrete
- Excellent bonding properties
- Two-component product

Technical characteristics: pre-application

Properties	Unit / Description	
	Component A	Component B
Chemical description	Epoxy resin + filler	Polyamine mixture
Physical state	Liquid	Liquid
Packaging	Metal container: 11.7 kg	Plastic container: 3.3 kg
Non-volatile content	Approx 100%	100%
Flash point (ASTM D 93)	120°C	>100°C
Colour	Grey	Slightly yellow
Density (25°C)	1.14 g/cm³	1.05 g/cm³
Viscosity (15°C)	7,000 mPa.s	860 mPa.s
Viscosity (25°C)	3,250 mPa.s	450 mPa.s
Viscosity (35°C)	2,000 mPa.s	250 mPa.s
VOC content	7 g/l / 0.7%	0 g/l
A/B mixing ratio	A=100 / B=28.2 by weight A=100 / B=43.2 by volume	
Mixture properties	Density: 1.37 g/cm³ (23°C) Viscosity: 750 mPa-s (23°C)	
Pot life (200 g, 25°C)	22 mins	
Storage	Keep at a temperature between 10°C and 30°C as the product is sensitive to frost. Component A may crystallise if stored for extended periods under certain conditions. If this occurs, it can be restored by heating to 70°C - 80°C and stirring thoroughly	
Use before	Up to 12 months after date of manufacture	

Technical characteristics: final product

Properties	Unit / Description
Final state	Solid membrane
Colour	Grey
Shore hardness (ISO 868)	80D
Solid film density	1.15 g/cm³
Elongation at break	7.5%
Tensile strength	23 MPa
Adhesion (concrete)	>2.5 MPa (wet concrete)
UV resistance	StrataPrime GC shows a very slight yellowing upon UV exposure, but this does not affect the product's mechanical properties.
Thermal resistance	Stable up to 80°C

Substrate and environmental conditions

In order to achieve a good penetration, the supporting substrate must be clean and dry, free from dust, loose particles, oils, organic residues and laitance. The surface must also be flat, even and regular and any cracks or fissures must be repaired before installation can take place. The substrate must also be compact and cohesive, with any pull-off tests showing a minimum resistance of 1.4 N/mm².

The substrate temperature should be between 10°C and 45°C. At higher temperatures, please consult Strata Technical Services as particular precautionary measures may be required.

Mixing and application

Stir and thoroughly homogenise components A and B using a low-speed stirrer. Once mixed correctly, the material will appear as a homogenous, clear liquid. Do not mix more material than the amount usable within the pot life window.

Mixing with quartz sand is possible for other intended uses.

Apply 200 to 500 g/m² of undiluted product using a brush or roller. Other quantities are possible when the product has been diluted. Please consult Strata Technical Services for further guidelines.

Curing time

Curing time will be dependent on environmental conditions. The following table gives the approximate curing time for 500 g/m² of applied product.

Environmental conditions	Dry to touch
23°C	2.5 - 3 hours

Reapplication

It is possible to apply a second coat of StrataPrime GC as soon as the first coat is dry to touch. Do not wait any longer than 24 hours after the first coat has been applied.

Tool cleaning

Tools can be cleaned with a recommended solvent cleaner. Please contact Strata Technical Services for further guidance.

Health and safety

StrataPrime GC contains epoxy components which are potentially sensitising. Component B is corrosive. Always follow the instructions and safety precautions provided in the material safety datasheet. As a general rule, suitable skin and eye protection must be worn. This product is intended to be used only in the manner outlined on this datasheet, and should only be installed competent professional users.

Environmental considerations

Empty containers must be handled taking the same precautions as if they were full. Containers must be considered as hazardous waste, to be transferred to an authorized waste manager. If any residual product remains in the containers, do not mix it with other substances without checking for possible dangerous reactions.

Further information

The information contained in this datasheet, along with any advice provided (either written or verbal) through testing are based on our experience and do not constitute any product guarantee for the installer.

We recommend that all of the information provided is carefully studied before proceeding with application, and strongly advise that suitable tests are carried out onsite before application in order to determine the suitability and compatibility for the specific project.

The application, use and processing of our products are beyond our control, and therefore under the exclusive responsibility of the installer. As a result, the installer will be solely responsible for any damage derived from the partial or complete disregard of our guidance or the general mis-use of any of our materials.