

SAMBOND® CCF WATERPROOFING SLURRY



DESCRIPTION:

- SAMBOND® CCF is a two-component, acrylic-modified cementitious coating which forms a tough, elastomeric film.
- It is suitable for all types of structures including those in coastal environments.
- Can also be used on concrete, brick and block work substrates and is equally suitable for new and existing structures.
- It is designed to bridge shrinkage cracks.
- Provides a seamless, flexible waterproof coating suitable for water tanks, reservoirs, drainage culverts basements and roofs.
- Gives a tough and durable water-resistant coating which can withstand light pedestrian traffic and also excellent weather resistance for exterior applications.

ADVANTAGES:

- Provides quite efficient protection to concrete.
- Impermeable to water (without pressure) (prevents penetration of water) but at the same time permeable to water vapour.
- Suppresess carbonation and hinders chloride penetration.
- Provides high resistance to the effect of long-term weathering.
- Durable in all climate conditions including UV-attack.
- Non-toxic and ideal for potable water tanks.
- Flexible with thermal expansion similar to concrete.
- Excellent bond to concrete and masonry.
- Gives good crack accommodation capacity.
- Minimum surface preparation needed and costs less labour.

MECHANICAL / PHYSICAL PROPERTIES:

Surface preparation:

- Clean the surface thoroughly, washing and removing dust, dirt, oil grease and loose debris covered with SAMBOND WC.
- NEVER dilute SAMBOND ® TC with water for ease of application.

Description	Quantity	According to Code / Std
Liquid : Powder ratio	1:2.14	
Tensile strength (N/mm ²)	2.10	ASTM D412
Elongation at break (%)	180	ASTM D412
After aging 14 days at 50 °C		
Tensile strength (N/mm ²)	2.50	ASTM D412
Elongation (%) at break	120	ASTM D412
Pullout bond strength (N/mm ²)	Minimum 2.00	ISO 4824
Shear bond strength (N/mm ²)	Minimum 4.00	
Water permeability	Passes	S 2645
Accelerated weathering 500 hours	No chalking or cracking on film	
After 72 hours chemical immersion in 0.5% (v/v) NaOCl		
Tensile strength (N/mm ²)	1.48	
Elongation at break (%)	224%	
After 72 hours chemical immersion in 1.25% (v/v) NaOCl		
Tensile strength (N/mm ²)	1.30	
Elongation (%) at break	150	
After 72 hours chemical immersion 3.7% (v/v) HCl		
Tensile strength (N/mm ²)	1.50	
Elongation (%) at break	400	

CONSULT OUR PRODUCT APPLICATION DEPARTMENT (PAD) IN CASE OF ANY DIFFICULTY OR FOR TECHNICAL ASSISTANCE

SAMROCK products are guaranteed for the performance of material and manufacture. The details given here are based on our laboratory and field observations and as such as construed to be reliable. But we shall not accept responsibility for any work carried out with our material as we do not have control over other ingredients, workmanship and field conditions. This data sheet is subject to change in view of constant research and development being undertaken in our laboratories. Customers are advised to contact SAMROCK for the latest version.

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MIX PREPARATION:

- Pour SAMBOND® CCF Part I into a bucket and add water as mentioned in table below.
- Start stirring and slowly add SAMBOND® CCF Part II, avoiding any lump formation.
- Mix for 2/4 minutes.
- Apply the prepared mix on the substrate surface.
- Keep 2-6 hours interval in between 2 coats.
- Apply with brush.

PRODUCT DATA:

Form	Part I: White liquid Part II: Specially graded grey cementitious powder
Base	Acrylic polymer
Colour	Grey (mixed material)
Specific gravity	1.70 at 25°C
Ultimate elongation	180%
Coverage/ Consumption	12-14 M2 per pack of 20 kgs
Pot life	30 minutes @ 27°C
Shelf life	12 months at 25°C
Safety	Non-toxic and non-flammable
Packing	Part I: 5 kgs + Part II: 15 kgs = 20 kgs bucket

THE QUANTITIES TO BE ADDED IN MIX PREPARATION FOR REQUIRED CONSISTENCY ARE AS UNDER:

Application mode SAMBOND® CCF Part I Water SAMBOND® CCF Part II

Brush 5.0 kgs 3 ltrs 15 kgs

RECOMMENDED APPLICATIONS:

- Damp proofing of houses, repair work for waterproofing.
- For walls, terraces and bridges to provide damp proofing.
- To fill holes, cracks, imperfections, honeycomb, rough and defective areas in concrete.

WATERPROOFING SYSTEM DESIGN:

- Layer thickness: 1.5 mm
- Primer: 1 coat of SAMPRIME LF
- Base coating: 1 coat of SAMBOND® CCF
- Fabric reinforcement: SAMPOLY F
- Top coat: 1 coat SAMBOND® CCF
- UV protection: Scree concrete with slope (min average thick: 50mm) admixed with SAMPLAST LW I50 + SAMFIB