

PRODUCT DATA SHEET

PRODUCT NAME

Isoflex – FCW

MANUFACTURER

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PRODUCT DESCRIPTION

Isoflex FCW is a transparent or white flexible waterproofing coating based on Styrene Acrylic resin. It can be applied to roofs, walls and into water tanks by brush or by a roller. It may be applied on concrete, asbestos, bitumen, wood etc...

PHYSICAL AND CHEMICAL CHARACTERISTICS

Color	Clear &/ or White.
Specific gravity	- 1.31.4 ± 0.02
pH	8.6 (approx.)
Solid Contents	65 ± 2%
Application Temperature	+5°C to +60°C
PVC %	55
VS %	40
Viscosity KU	120
Opacity %	98
Gloss %	4.3
Water penetration @ 1.5 bars (DIN 1048)	NIL if applied @ 1.5 mm total wet thickness.
Recoat	6 to 8 hours.
Curing time @ 25°C	7 Days (Total Curing)
Tools Cleaning	Water & Soap if Wet. Turpentine or LAWS if Dry.

APPLICATIONS

- Cracks should be clean, primed by FCW solved in water at 100% and filled by Isoflex Acrylic Caulk without exceeding a thickness of 10mm each time.
- The surface to be coated should be clean, dry and exempt from greasy, oily substances or any product, which may cause a barrier of adhesion between Isoflex – FCW and the surface coated.
- Isoflex – FCW is applied in 3 to 4 coats which intervals of 4 to 6 hours between two successive coats:
 - A-The first coat should be diluted with equal quantity of clear water, to be the primer coat for the other coats.
 - B-The other coats should be diluted by adding 10% of water for roofs coating, and 10 to 20% for walls.
 - C-Isoflex – FCW may be reinforced by using fiberglass fabrics.

ADVANTAGES

*	Waterproofs and adheres to all surfaces including old asphalt, bituminous roofs or new concrete roofs.
*	400% extensible and presents a soft elastic coat, which follows the building movement.
*	Reflects sunlight by 70%, reduces interior temperatures (white color).
*	FCW could be colored.

TECHNICAL DATA

Consistency (seconds)	
Initial	7- 12
After 30 Days at 50°C	20- 30
After 5 freeze – thaw cycles, -18°C	35-55

Slump, (inches)	
Channel method	0

Hardness (Shore A)	
Initial	25-35
After Fade-Ometer , 300 hours	50-60
After Weather-Ometer , 300 hours	60-70
After 1 year exterior exposure (South 45° Northeast - USA	50-60

Color	
Initial	White or Clear
After Fade-Ometer , 300 hours	No Change
After Weather-Ometer , 300 hours	No Change

Dry peel adhesion (lb./in.)	
Glass	11 to 16 Cp
Aluminium	8 to 16 Cp
Alkyd	12 to 16 Cp
Wood	10 to 13 Cp

Wet peel adhesion (lb./in.)	
Glass	4 to 6 Cp
Aluminium	5 to 8 Cp
Alkyd	3 to 6 A/C
Wood	

Tensile Strength (psi)	
At maximum stress	25 to 35
At break	15 to 20

Elongation (%)	
At maximum stress	300 to 400
At break	450 to 550
Recovery at 25 % elongation , %	58 to 63

Low Temperature flexibility - 15°F.,	
¼" slab on aluminium, 180° bend	White or Clear
¼" slab on aluminium, 180° bend	No Change
(1 year exterior exposure) Northeast, USA.	No Change

- * C- indicates cohesive failure
- * A/C- indicates mixed adhesive / cohesive failure
- * CP- indicates cohesive peaks failure

APPEARANCE

ISOFLEX – FCW – Clear is clear, non-yellowing liquid.
ISOFLEX – FCW – White is a light white liquid.

PRETREATMENT FOR PAINT

Water can penetrate through most paints and coatings. This leads to damp substrates and blistering and peeling of paint. Pretreating concrete, masonry, or stucco with ISOFLEX - FCW prior to painting keeps walls drier and extends the life of the paint.

ISOFLEX – FCW is compatible with most latex and other paints. But to assure compatibility between paint and pretreatment, a small test application is recommended.

Vertical Surfaces: Mix well before using. Test on small area before starting general application to assure desired results and coverage rates. Apply when surface and air temperatures are between 40°F to 110°F or 4.44°C to 43.33°C. Provide adequate ventilation. Apply in a flooding application, so the material runs down 6 to 8 Inches below the spray pattern. For best results two to three applications are recommended, repeat within eight hours after initial application. A wet treated surface may be agitated with a soft bristle scrub brush to ensure more even distribution and greater penetration. During application, precautions should be taken to protect the surrounding area from overspray. Remove overspray from non-targeted surfaces immediately with soap and water. Apply to southern exposed areas during coolest part of the day.

Horizontal Surfaces: Mix well before using. Pretest to measure material coverage rates. Apply enough material so that first coat solution penetrates the surface being a bonding and primer coat. Avoid puddling or ponding, brush or broom to spread material to more porous area. If applicable, block all drains and use absorptive coverings to contain run-off of excess material. To avoid unnecessary clean-up, use soap and water to remove overspray as soon as possible.

Dry Time: To touch, or 6 to 8 hours depending on temperature and humidity.

Clean Up: Thoroughly rinse spray equipment with clean water. Wash rollers with soap and water. During work, place tools in water when not in use.

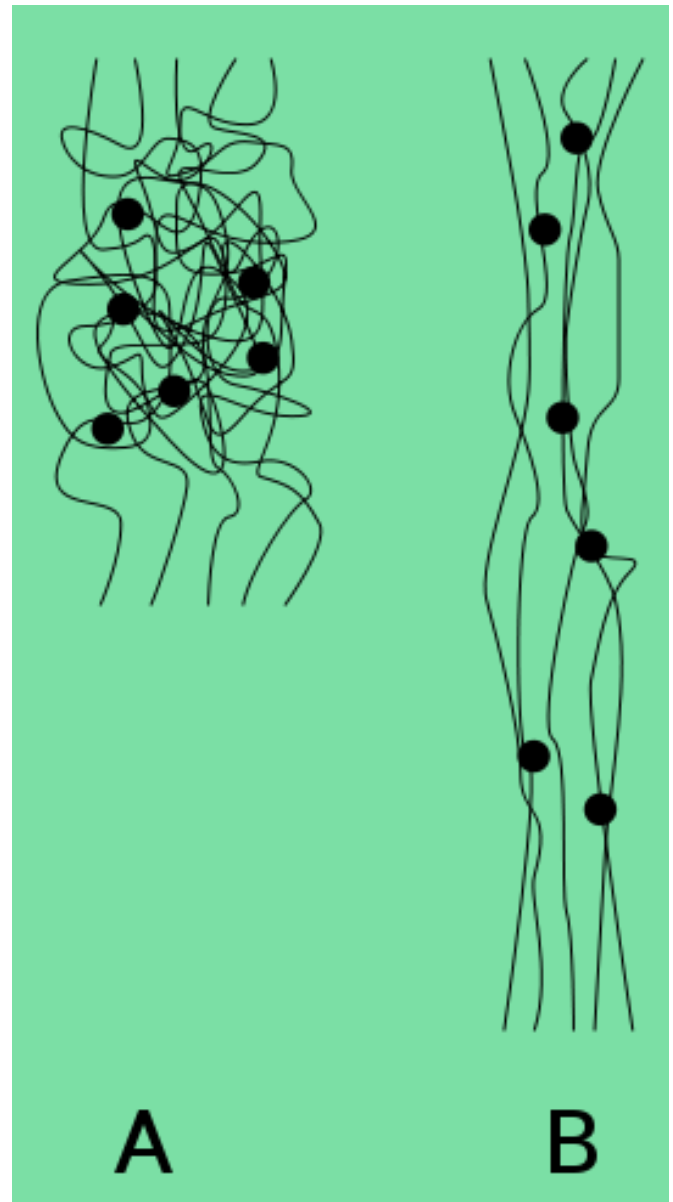
Precautions: Fire hazards are eliminated since ISOFLEX - FCW is water-based and does not contain combustible or flammable solvents. Respiratory protection is not required during normal use and handling. Please refer to the Material Safety Data Sheet for more detailed information.

AVAILABILITY

ISOFLEX - FCW is available in 1 & 5 gallon containers to approved applicators throughout Lebanon & Middle East countries. Contact Société Raymond Barakeh SAL Ph. 00961 1 690594 for a sales representative in your area.

TECHNICAL SERVICE

Technical service engineers and chemists are available to answer questions on product performance, application methods and chemical composition.



(A) Isoflex – FCW unstressed.

(B) Isoflex – FCW under stress.

When the stress is removed, it will return to the (A) configuration.

(The dots represent cross-links) - Graph by [Mdufalla](#).



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Tests should be carried out only by chemists or chemically qualified lab technicians.

Before using any chemical, read its label and Material Safety Data Sheet. © 2015 Société Raymond Barakeh SAL