FESTER CR-66 FIBRE FORCE

Super elastic, fibre-reinforced waterproofing

Dual-component vapor barrier, cementitious waterproofing reinforced with fibres for additional strength and elasticity. Once mixed, the compound becomes a smooth, easy-to-apply and fluid mix, and after drying **Fester CR-66 Fibre Force** forms a flexible, waterproof coating able to withstand surface movements, while also providing excellent crack bridging resistance.

USES

- To waterproof and protect surfaces of concrete, brick, prefab panels and among others.
- Ideal for walls and floors in bathrooms, shower stalls, kitchen and laundry areas, planters, terraces, balconies, concrete water tanks and cisterns, wading pools and larger pools.
- On walls as an efficient barrier for the treatment of humidity and saltpeter.

ADVANTAGES

- Product is fast and easy to apply, and the high fibre content (part A) provides additional reinforcement and better performance.
- Crack bridging over existing cracks and fissures up to 4 mm wide.
- Quick drying and does not require curing.
- Simple, practical and fast application with brush, trowel or bristle brush.
- Rated for contact with drinking water under NOM-127-SSA1-1994.
- Can be applied on concrete surfaces 72 hours after removing formwork.
- Withstands exposure to elements so no additional coating is required. Product can be painted or coated with mortar, ceramic tile, epoxy coatings or plaster finishes.
- Ideal for indoor and outdoor applications.
- Preparation does not require water.
- Does not have solvents or hazardous materials.
- Withstands light foot traffic.
- Resists positive pressures up to 7.5 bars (75 meter water column) and negative pressure up to 0.15 bar (1.5 meter water column.
- Protects concrete from carbonation and corrosion, while resisting the alkalinity of concrete and other building materials.
- Withstands surface expansion and contraction caused by changes in temperature and humidity .

APPLICATION INSTRUCTIONS

1. Surface preparation

To ensure optimal performance of the product, the surface must be in good conditions, oil- and dust-free, as well as free of previous coatings and/or any waxy residues contained in some curing membranes

Repair cracks, fissures and cavities smaller than 4 mm with Fester **CR-66 Fibre Force** and those larger than 4 mm with **Fester CM-200** mortar. For cracks in concrete structural elements, you can use **Fester Epoxine 220**, an epoxy product designed for concrete injection. See the technical data sheet for additional information. Repair water leaks in concrete and masonry elements with **Fester CX-01.** See the data sheet for additional information. For best results, saturate porous or absorbent surfaces with water and allow to drain, while keeping each section of the surface damp until time of application.

2. Mixing Parts A and B.
Pour the resin (Part B) into a clean 30-liter container and using a suitable mixer gradually mix in the powder (Part A), for a period of 4 minutes. Make sure to scrape container walls and bottom with a wooden spatula to incorporate components completely. Proceed to mix the compound for an additional 2 minutes until lumps are eliminated and a homogeneous consistency is obtained.

3. Reinforcement of angles, crack and joints.
Prior to application of product to the larger area, it is important to reinforce critical areas such as angles, expansion joints, cold joints and cracks in the concrete. Apply **Fester CR-66 Fibre Force** abundantly and lay down fitted pieces of **Fester Acriflex** or **Fester Revoflex** mesh to provide reinforcement, allowing these to dry for 3 hours before continuing.

4. Application of the first coat.
Apply the properly mixed product at a yield of 1 L/m², or an average thickness of 1 mm of fresh mixture, and allow to dry for 3 hours before applying the next layer.

5. Application of the second coat.
Apply the properly mixed product at the same yield as the 1st, and allow to dry for 3 hours before applying a third coat as required, always observing the yields provided in the product yield table.

After product dries for 24 hours, surface can be painted, tiled and/or other textured or concrete finishes can be applied.

YIELD

Foundation walls: 3.5 kg of mixture (2 L/m²) in 2 coats.

Balconies and terraces: 4 kg of mixture (2.5 L/m²) in 2 coats.

Partitions, block walls, drywall, etc: 4 kg of mixture (2.5 L/m²) in 2 coats.

Shower stalls, kitchens and laundry rooms: 3.5 kg of mixture (2 L/m²) in 2 coats.

Water tanks, pools, reflecting pools or others: 5 kg of mixture (3 L/m²) in 3 coats.

Notes: Once mixed, Fester **CR-66 Fibre Force** yields approximately 21 liters of mixture. Each liter of fresh product applied to 1 m² provides 1 mm in thickness as a fresh coat and 0.85 mm thickness when dry.

IMPORTANT INFORMATION

- Once surface has dried for 24 hours, it is important to moisten the surface prior to application of the next coat.
- Do not mix **Fester CR-66 Fibre Force** with any other material.
- Do not apply product to contaminated or poorly prepared surfaces that can prevent optimal adhesion.
- The water pressure specs cited in this document shall depend on the structural integrity and quality of the substrate.
- For surfaces in constant contact with water, allow product to dry for 3 days. If the water in question is potable water, allow product to dry for 7 days, always removing impurities by thoroughly scrubbing and rinsing prior to filling .
- The content of part B (resin) is sufficient to achieve proper consistency. Do not add water to the product.
- Do not apply **Fester CR-66 Fibre Force** at temperatures below 5°C.
- Do not apply on hot surfaces, and if necessary, wet the surface and allow it to air out. This will help to lower the surface temperature and ensure proper bonding.
- This product is not recommended for waterproofing

concrete roof slabs or roofs in general. It is recommended for terraces or balconies measuring up to 25m², as long as the slab has sufficient reinforcement or undergirding to prevent sagging that can cause puddles or cracks that can damage the waterproof coating system. When used in such conditions, product must be applied in the shade and covered with gravel to prevent damage from foot traffic or other causes. The same applies for use in kitchens, laundry rooms, bathrooms or other areas where the product may be damaged.

- Use in wastewater tanks should be limited, since contaminants of wastewater can vary greatly, and bacteria or gases can corrode finished surface. In such applications, scheduled inspections must be instituted and any damage to the surface must be repaired in order to ensure protection of the concrete substrate and performance of the waterproofing system.

SAFETY PRECAUTIONS

- Wear recommended safety equipment (goggles, powder mask, gloves and back brace belt). For more information, consult the safety data sheet.
- Do not leave within reach of children.
- In case of contact with the eyes, wash immediately with abundant water.

CONTAINERS

CONTAINERS	**Unit A+ B containing 35kg of product.** In gray and white color. (Bag with 25 kg and jug with 10 kg). **Unit A+B with 7kg.** In grey color (Bag with 5 kg and jug with 2 kg. 2 units A + B per box).
STORAGE	Keep in a cool, dry place out of direct sun-light.
SHELF LIFE	12 months
STACKING	**35 kg unit** 25 kg bag : stacks of 4 10 kg jugs: stacks of 3 **7 kg Unit** 12 boxes per bed, stacked 4 high (48 boxes per pallet)

ECOLOGICAL PROPERTIES

Fester CR-66 Fibre Force drives demand for regionally produced construction products and materials, thereby reducing environmental impact of transport.

Place of production: Carretera Panamericana Km. 312 Tramo Libre. Celaya-Salamanca, Guanajuato CP. 36700.

With a VOC content of 0.0 gr/L, **Fester CR-66 Fibre Force** contains no foul-smelling, irritating or harmful contaminants, thereby contributing to the quality of the environment and well-being of workers and building occupants.

PHYSICAL PROPERTIES

TEST		METHOD CRD/ASTM/ DIN/EN	SPECIFICATION
Appearance	Part A	MER 003	Fine powder with high fibre content
	Part B		Milky white liquid
Density of mixture (Components A+B) [kg/L]		ASTM C - 185	1.54 to 1.68
Consistency A + B (table fluidity test) [cm]		UNE-EN 1015-3	24.0 to 26.0
Air content A + B [%]		DIN - 18 555	12.0 to 19.0
Water resistance at positive pressure of 3 mm, 5 bars for 72 hours		DIN 1048, part 5	No seepage
Water vapor transmission and permeability [perms /inch]		ASTM E- 96, Tipo III	Maximum 10.0
Maximum water absorption in 2mm coat after drying 7 days with under immersion for 7 days [%]		In-house method	10.0
Accelerated agging test at 2,000 hours (5.5 years) without failure		DIN EN ISO 1504-2	Meets
Minimum Elongation —2.0 mm thickness at 7 days [%]		ASTM D- 412	85.0
Minimum tension —2.0 mm thickness at a 7 días [kg/cm^2]		ASTM D- 412	3.0
Minimum crack bridging capacity— 3.0 mm thickness at 7 days [mm]		MER 477	2.50
Minimum adherence to concrete (Pull off test) at 7 days, [N/mm^2]		ASTM D- 7234	1.0
Dripping during application of 2 mm coat		--	Does not drip or run
Working time once mixed [minutes]		--	De 50 a 70
Resistance to early rain of 2 mm coat after 3 hours drying time		--	Without damage
Recommended thickness of each fresh coat [mm]		--	1.0
Resistance to foot traffic [hours]		--	After 5 hours dry
Temperature range for application [^{0}C]		--	5 to 40
Minimum thickness of 1 mm /m² fresh coat after drying [mm]		--	0.80

Note: The technical data presented were obtained under laboratory conditions (23.0 +/- 1.5°C and at relative humidity of at least 50%).

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