



# FESTER ACRITON PROSHIELD 12 YEARS

Extra quick-set, water-based elastomeric acrylic waterproofing with hydro-repellent technology

**Fester Acriton Proshield®** is a fibrated, elastomeric waterproofing of the latest generation product that attains an optimal balance of elongation, tension and wear resistance. Ideal durability and extra quick-set allows users to complete waterproofing in a single morning

Producto certificado bajo  
NMX-U-125-SCFI-2016



## USES

- **Fester Acriton Proshield®** is recommended for waterproofing horizontal or inclined concrete slabs, but it can also be used on metal roofs and fiber-cement, and even polystyrene and polyurethane thermal foam panels after coating with **Fester Acriton® Sellador**.
- **Fester Acriton Proshield®** in white is recommended for waterproofing where maximum reflection of solar radiation is required in order to keep interiors cooler and more comfortable, while also bringing significant savings in electricity consumption of air conditioning or ventilation systems.
- Due to its properties, **Fester Acriton Proshield®** can be applied for maintenance of existing systems made from precast material, acrylic or even over asphalt carpets after coating with **Fester Acriton® Sellador**.

## ADVANTAGES

- The formulation of **Fester Acriton Proshield®** provides the optimal balance of mechanical properties, ensuring uniform performance with structural movements. As such, cracks and fissures (except for highly dynamic joints and cracks) can move without breaching the waterproofing system, thereby reducing subsequent repair expenses. Moreover, Fester has improved **Fester Acriton Proshield®** performance over time, making it even more resistant to adverse climatic conditions such as rain, UV rays, cold, drought, dust, among others. Weathering tests demonstrate that **Fester Acriton Proshield®** does not become rigid or brittle and it retains its elongation and flexibility properties even after **12 years**.
- The improvements in **Fester Acriton Proshield®** make it the only renewable waterproofing product on the market, since at the end of the installed service life, a new coating of the



product can be laid down directly over the older layer, thereby extending the service life and warranty by up to 50% over the original product (see yield section).

- The product is characterized for its very high thermal resistance and low conductivity, in other words, it does not conduct heat from the sun's rays into the surface of the roof. In construction projects adapted to regional weather conditions, this product works with typical building materials to enhance heat resistance and prevent roofs from overheating.
- In white color, **Fester Acriton Proshield®** provides high solar reflectivity (80% minimum) and retains white color over time and the reflective property. This high reflectivity and thermal resistance allow the product to resist overheating of roofs thereby reducing the temperature of the interiors, which in turn brings considerable savings in electricity consumption for air-conditioning and ventilation.



- **Fester Acriton Proshield®** is still extra quick-set. Under equal conditions, it dries up to 60% faster than any product of its kind. In this way, only 2 hours after application of the first coat, you may walk on the area to apply the second coat and complete the system application in one single morning. This accelerated process brings you significant time and money savings.
- This competitive advantage allows you to start with the application of **Fester Acriton® Sellador** at 8:00 a.m., and one hour later apply the first coat of **Fester Acriton Proshield®**. After two hours, you can apply the second coat to finish treating a surface of 100 m<sup>2</sup> by 12:00. Moreover, the coated surface can withstand rain by 13:00 of the same day.
- In rainy season, when sudden rain may occur 1 hour after applying the first or second coat, significant savings are made with less product loss due to runoff or time out to re-apply.

**Note:** This product is used at a yield of 2 L/ m<sup>2</sup> in two coats. Depending on thickness of the coat, drying may take longer when conditions are not completely sunny. Take this into account when rain is in the forecast before two hours.

- High content of synthetic fibers, which significantly improves performance.
- Resists to light foot traffic.
- Resistant to puddling.
- Ready to use.
- Quick and easy to apply.
- Adheres to moist or dry surfaces, but not to wet or saturated surfaces, because surface pores must be open to achieve proper adhesion.
- Resists alkalinity of cement and industrial fumes.
- Non-toxic, unless ingested.

\*The warranty and extended warranty are provided in writing when the waterproofing system is installed entirely by a specialist of the Authorized **Fester®** Distributors Network. For more information consult a specialist from the Authorized **Fester®** Distributors Network.

## APPLICATION INSTRUCTIONS

### 1. Surface preparation

In rainy season, it's advisable to prepare and repair the surface one day before waterproofing, because if such work is done the same day, waterproofing application will be delayed and it may be affected in case of rain in the afternoon.

#### a. New surfaces

- Remove loose, flaking material or sharp protrusions by scraping the surface with a flat shovel.
- Make sure there are no low areas where long-lasting puddles can form or that might produce mud. Such low areas must be corrected.
- Sweep the surface to remove dust, impurities and trash. Wipe entire surface repeatedly with moist cloth to fully remove any persistent dust. For best results, wash the surface and allow it to dry

#### b. Surfaces with existing waterproof system

- Remove loose, flaking material of the existing waterproof system to ensure proper adhesion of the new coat.
- Make sure there are no low areas where long-lasting puddles can form or that might produce mud. Such low areas must be corrected.
- If when removing the flaking, loose material, you find pitting or holes, make sure to repair and/or re-level the affected areas.
- Sweep to surface to remove dust, impurities and debris. For best results, wash the surface and allow it to dry.

#### c. Metal sheet roofs

- On sheet roofs, cleaning must be performed using a pressure washer, detergent and by scrubbing with brushes to ensure the surface is completely clean. This cleaning is required regardless of whether the roof sheets are new or old, since new metal sheets are often quite greasy. Metal sheet sections with rust or corrosion must be cleaned mechanically and anticorrosive primer coat must be applied. Severely worn sheets must be replaced. Gutters must also be waterproofed with **Fester Vaportite® 550** system, because these units often have puddling and accumulate mud (see technical sheet).

### 2. Applying sealant

Using a brush, roller or spray gun, apply a coat of undiluted **Fester Acriton® Sealant** to surface. Approximate yield is 5 m<sup>2</sup>/ liter, which can vary depending on the surface type or roughness and absorption properties. Let sealant coat dry for 1 to 2 hours (depending on the weather) and continue with the waterproofing application process.



### 3. Reinforcing critical points

#### a. Fissures or cracks

- We recommend filling cracks and fissures with **Fester Acriton® Patching Compound**, applying product wide spatula and smoothing flush with the surface. Allow patching compound to dry for 2 to 4 hours (depending on the size of the fissure) until patched area is not affected when treading on it (see technical sheet).

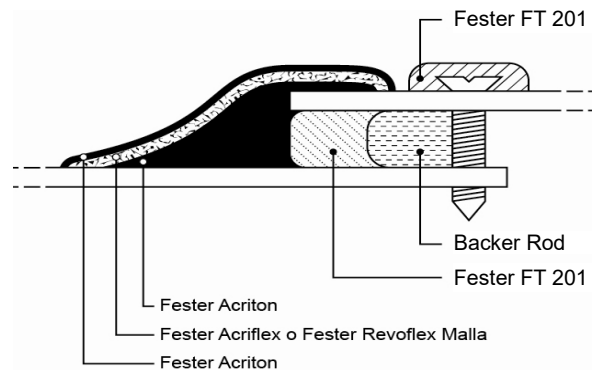
#### b. Down spouts, cold joints, parapets, chamfers, pipe bases, antennas and cisterns, among others.

- Apply a uniform coat of undiluted **Fester Acriton®** to critical area and immediately lay in sheets of **Fester® Acriflex** or **Fester® Revoflex® Mesh** in such a way that the entire critical area is covered. Smooth out mesh to eliminate folds or wrinkles. Consider reinforcement with a **Fester® FT 201** in areas subject to higher movement. Let product dry and proceed with the waterproofing application.

#### c. Sealing metal sheet roof overlaps, roof ridges, fastening screws and gutters.

- Overlaps and roof ridges should be assessed to determine optimal product. **Fester Acriton Proshield®** can be used to between sheets, applying product evenly with brush and laying in sheets of **Fester® Acriflex** or **Fester® Revoflex** reinforcement meshes.
- Where metal sheet sections lay without large separations, **Fester® FT 201** sealant can be used, since it provides optimal elongation properties.
- Reinforcement. For industrial buildings using very long roof sheets where expansion and contraction is most notable at joints or overlaps; sealing treatment must be done by loosening the fasteners holding these sheets, separating them and applying cords of **Fester® FT 201**. These cords in effect create an expansion joint that absorbs the displacement cause by expansion and contraction of the metal sheet. You may want to run a cord of sealant parallel to sheet overlap to bridge and reinforce the joint. Finally, by placing **Fester Acriton Proshield®** reinforcement membrane over the splice, the risk of the reinforcement breaking due to expansion and contraction of the metal sheet is reduced.

- The screws must be tightened and capped with **Fester Acriton Proshield®**, you may you prefer to use **Fester® FT 201** sealant to cap screws. Where the waterproofing with reinforcement mesh is used, take care not to overtighten screws so as not to completely clamp down on the joint and thereby hinder the movement of the overlap joint.



- Gutter joints and down spouts can be sealed with the **Fester® FT 201** sealant or with **Fester Vaportite® 550** in conjunction with **Fester® Acriflex** or **Fester® Revoflex** reinforcement membranes. The system must be complemented by **Fester Vaportite® 550** and **Fester® Festalum®**.

### 4. First waterproofing coat

The first coat can be performed with soft synthetic or natural bristle brooms or brushes, (do not use airless spray equipment to prevent clogging with the fiber content). Never use plush rollers. The product quantities per area are the minimum quantities required.

a. For surfaces in good condition: Apply the first coat of **Fester Acriton Proshield®** undiluted on the previously prepared surface, spreading product in one direction at a yield of 1.0 liters per m<sup>2</sup>. Allow coat to dry for 3 hours before applying the next coat.

b. For metal sheet roofs: We recommend using white color to avoid heating and consequent expansion of the metal sheet that can damage the roof structure and/or produce elevated temperature inside the building. Surfaces must be in good condition, prepared, primed or sealed, including pre-treatment of roof ridges, overlaps and fastener screws as explained in point 3.c. Apply the first coat of **Fester Acriton Proshield®** undiluted at a yield of 1.0 liters per m<sup>2</sup>. Allow coat to dry for 3 hours before applying the next coat.



c. For fissured concrete surfaces without joints and/or highly dynamic cracks and without the use of reinforcement mesh: Apply 2 coats of waterproofing at a yield of 1 liter per m<sup>2</sup> per coat. Allow coat to dry for 3 hours before applying the next coat.

d. For concrete surfaces with high structural movement: Where cracks, fissures and highly dynamic joints commonly exist, (or where there are risks these forming), such as in structures built of concrete slab, steel, compression mortars, brick pavers, prefabricated or very cracked slabs, observe the following recommendations:

After preparing and priming the surface, apply the treatment for cracks, fissures, joints and other critical points as indicated in item No. 3, as applicable. Apply the first coat of undiluted **Fester Acriton Proshield**<sup>®</sup> over the entire surface evenly, working by sections at recommended yield. Section by section lay down **Fester<sup>®</sup> Acriflex** or **Fester<sup>®</sup> Revoflex** reinforcement meshes in such a way that 100% of the area to be waterproofed is covered, while making sure to smooth out folds or wrinkles in the membrane. At longitudinal and transversal joints, the mesh must overlap by at least 10 cm. Application is carried out in one direction with soft synthetic or natural bristle brooms or brushes. Do not use airless spray equipment or paint rollers.

The first coat is applied at a minimum yield of 1.0 liters per m<sup>2</sup>. Allow coat to dry for 3 hours before applying the next coat. (The previous coat must be dry to prevent the formation of bubbles of trapped moisture.)

**Notes:** Drying times for the first coat in the 4 scenarios cited are achieved under sunny conditions. On cloudy, if product is not allowed to dry completely, you run the risk of bubbles forming in the subsequent coat. The red color waterproofing product is especially prone to this problem once it heats up under exposure to sunlight.

(Never use airless spray equipment to prevent clogging with fiber content).

## 5. Second waterproofing coat

For installations using reinforcement membranes (depending on surface conditions described in 4.a, 4.c and 4.d), once the first coat of **Fester Acriton Proshield**<sup>®</sup> has dried, proceed to apply the second coat of undiluted **Fester Acriton Proshield**<sup>®</sup> using same technique and at the same yield. This application should be performed in cross direction with respect to the first coat.

**Note:** The tools and equipment used can be washed with water while the product is still fresh.

## Extension of service life or warranty

Among the advantages of this product, one is the extension of the system useful life or warranty up to further 50% linked to the quality (years) of the originally applied product. The system renewal consists in applying one single coat of **Fester Acriton<sup>®</sup> Proshield**, except in the points where, due to lack of adhesion or cracking, the system has been removed. Those places shall be treated with a complete system, following instructions in steps 1, 2, 3 and 4 of the corresponding section. To apply the single coat and system renewal on the whole surface, follow the yield section.

For purposes of waterproofing system renewal, the surface shall be examined and at least 70% of the system must have good conditions and optimal adhesion. If the areas do not meet these conditions, a new system shall be applied.

## YIELD

### Yield for surface conditions in points 4a, 4b, 4c and 4d:

- For 4a and 4b, we recommend applying at a minimum yield of 2.0 liters per m<sup>2</sup> in 2 coats.
- For 4c, we recommend applying at a minimum yield of 2.2 liters per m<sup>2</sup> in 2 coats.
- For 4d, we recommend applying at a minimum yield of 2.2 liters per m<sup>2</sup> in 2 coats.

**Yield for extended warranty:** We recommend applying at least 1.3 liters per m<sup>2</sup> per coat, while ensuring waterproofing product is distributed over the surface as evenly as possible.

Overall yields may vary depending on roughness, absorption, surface type and application technique.

## IMPORTANT INFORMATION

- Do not apply **Fester Acriton Proshield**<sup>®</sup> at temperatures below 5°C
- Do not use as a waterproofing substrate for tile or brick finishes, nor in pools or where there is constant immersion in water.
- Do not apply where on surfaces prone to prolonged puddling or where mud tends to accumulate as these conditions accelerate the breakdown of the waterproofing system.
- Do not apply to wet or water-saturated surfaces, as this can cause water vapor bubbles in the final coat.



- In highly dynamic joints and cracks, do not apply the product without using **Fester® Acriflex** or **Fester® Revoflex** reinforcement meshes.
- Do not apply this product on surfaces that are poorly adhered to the substrate.
- Do not apply on weathered insulation foam.
- Do not use where surface must withstand vehicle or heavy pedestrian traffic. Always use shoes with flat soles when walking on finished surface.
- For metal sheet roofs, we recommend using the white waterproofing product, which reflects heat and thereby reduces the amount of expansion and contraction of the metal sheet and associated structure. Movement due to expansion and contraction of metal can damage the waterproofing system especially at joints and fastener screws.
- Do not mix this product with other products.

## ECOLOGICAL PROPERTIES

- Water based product
- This product is made of water-based polymers and biodegradable surfactants.
- Does not contain mercurial preservatives.
- Does not contain heavy metals such as lead or chromium.
- Does not contain asbestos fibers.
- Does not contain solvents.
- Once dry, the product forms an inert plastic film that does not affect the environment.

## PRECAUTIONS

- Always observe safety measures when working at heights, employing ladders in optimal condition, safety harnesses and ropes and scaffold moorings, etc. For greater safety, always use walking plank “bridges” on metal sheet roofs.
- This product is to be used only outdoors.
- When handling the liquid product, use rubber gloves and safety goggles to prevent direct contact with the skin and eyes.
- This product contains ammonia. Do not handle liquid product in enclosed areas without proper gas mask.

Name of product	VOC (g/L)
Fester Acriton Proshield® 12 years, white and red	1.93

**Fester Acriton Proshield®** helps to enhance the quality of environment and the well-being of workers and residents since its VOC g/l content is as indicated in the previous table.

Production site: Carretera Panamericana Km 312. Tramo Libre Celaya-Salamanca, Guanajuato. CP. 36700.

## PACKAGING AND CONTAINERS

PRESENTATION	19 L Bucket In colors white and red
STORAGE	Keep product in original container in a cool, dry place away from direct sunlight.
SHELF LIFE	24 months
STACKING	24 kg: bucket: Stacks of three units



PHYSICAL PROPERTIES		
PROPERTY	Method ASTM / NMX-C- 450	SPECIFICATION
Appearance	E - 284	Creamy, fibrous product in white or red
Density [g/cc]	D – 1475	1.27 a 1.32
Solids by weight [%]	D – 2369 mod.	60.0 a 62.5
Brookfield viscosity, [Cps].	D - 2196	As per test: 34,000 to 39,000
		Resting for (15 days): 42,000 to 55,000
Dry to the touch, (20 mils wet [minutes])	D - 1640	45 - 65
Total drying time, (20 mils wet) [hours]	D - 1640	2.5 max.
Accelerated weathering, ultraviolet light, condensation and aspersion), hours	G - 53	Meets without damage after 4,380
	NMX – C – 450 - 2019	-15°C, without fail after 2,500
Elongation after weathering, [%] minimum	NMX – C - 450 - 2019	100% minimum
Tension after weathering [psi]	NMX - C – 450 - 2019	200 minimum
Cold bending test [°C]	NMX – C - 450 - 2019	-15
pH	E - 70	10.50 minimum
Stability 24 months	D - 1849	Must comply

**THERMAL PROPERTIES (Applies only to product in white color)**

Solar reflectance, [%]	C -1549 – 09	82.0 minimum
Thermal emittance index	C – 1371 – 04	0.86 minimum
Solar reflectance index (SRI)	E – 1980 – 11	102 minimum

NMX— U-125— SCFI-2016 (Certification)	
FESTER ACRITON PROSHIELD 12 YEARS WHITE	
Certification LEVEL OR CLASS	L - 1
Solar reflectance index	105
Solar reflectance, %	83.7
Emittance	0.91
Contrast ratio	0.98
Difference in whiteness	0.1%
Rated service life	12 years

**Note:** The data cited herein were obtained under HENKEL laboratory conditions.

**BASIC RECOMMENDATIONS FOR GREATEST EFFICIENCY IN THE APPLICATION OF THE PRODUCT**

1. Read the instructions carefully
2. Carefully prepare the surface
3. Observe specified yields.
4. Observe drying times in accord with climate



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The information provided in this technical data sheet, specifically the recommendations for proper handling and use of our products, is based on our professional knowledge and experience. As materials and local conditions may vary from place to place, which is beyond our control, we recommend performing tests to determine the suitability of our products for the intended application method and use. Fester shall not accept any legal liability for the contents of this data sheet or for any spoken advice it may provide to users of our products, unless there is evidence -of malicious intent or gross negligence on our part. This technical information sheet replaces all previous editions relevant to this product and is supplemented by the information contained in the corresponding safety sheet. We recommend that you consult the latter prior to using this product.