



FESTER A3, A5, A5 Fibrated and A7

Quick-set, water-based, elastomeric acrylic waterproofing system

Thanks to its quick set technology, it allows a complete waterproofing process in a single day. It is made from acrylic resins, inorganic pigments, mineral aggregates and special additives which provide excellent characteristics of impermeability, resistance of UV rays, adhesion on moist surfaces, etc.

USES

- Waterproofing system for concrete, horizontal and sloped, domes and rooftops or any other shape.
- As a protective coating for fibercement, galvanized or painted metal sheets.
- This product is recommended in white color for waterproofing to achieve maximum reflectance and isolate the sunlight, making interiors more comfortable and achieving significant energy savings when air conditioning system is used.
- Thanks to its properties, this product can be applied for maintenance of old systems even asphalt systems, after removing any poorly adhered parts, washing the surface with water and brushing it until achieving a clean surface, and then applying the acrylic **Fester Sellador Acrílico**.
- Alternatives for duration of 3, 5 and 7 years.
- Ready to use, easy and fast to apply.

ADVANTAGES

- **Fester A5 Fibrated**, in addition to filling cracks, makes the waterproof coat more efficient and durable by the reinforcement that brings the fiber .
- It does not contain asbestos or asphalt, it is elastic, with good adhesion and without developing vapor barrier, allowing perspiration on the surface.
- **Fester A3 y Fester A5** have insulation characteristics in white color according to the official mexican standard NOM 018 ENER - 2011.
- Under similar conditions, it gets dry 40% quicker than any other product of its type; therefore, in 3 drying hours following



the application of the first coating, you may walk on the product and continue with the system application process (Generates significant time savings).

- In rainy seasons: When sudden rain occurs 3 hours after applying the first or second coating layer, significant savings are made with less product loss due to runoff or time out is reduced to re-apply
- It adheres to moist surfaces, but not soaked or water saturated, since the pores must be free to achieve adhesion.
- Resistance to cement alkalinity, weather and normal environment conditions
- **Fester A** products have highly waterproofing properties.



APPLICATION INSTRUCTIONS

1. Surface preparation

In rainy season, it is recommended to prepare and repair the surface one day before, 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 or night.

1.1 New surfaces

Remove any loose, sharp or edged parts by grubbing the area with a flat shovel. Verify there are no zones where puddles may be formed, and generating muds accumulations; if there are, you must fix them. Sweep to remove dust, dirt and trash. Wipe with a humid mop all over the surface several times to completely remove any persistent dust. If necessary, wash out the area with water jet, brushing and letting it dry.

1.2 Surfaces with an existing waterproofing system

Remove false adhesions of the existing waterproofing system, because the new application will depend on this adhesion. Check for any parts where enduring puddles may appear, generating muds; if there are, then fix them. If, when removing the poorly adhered parts, cavities or irregularities are formed, repair and/or level the affected zones. Completely remove dust, dirt and trash. In this case, it is necessary to wash out the surface with high-pressure water and let it dry.

1.3 Metal sheets surfaces

On metal plate roofs, the corresponding cleaning works shall be done using a pressurized water stream, a cleaning agent and rubbing a brush until reaching cleanliness, regardless if it is a new metal sheet roof (new sheets have oils), weathered sheets or an existing system. Sections with rust or corrosion shall be mechanically treated and an appropriate anti-rust primer should be applied; if sheets are degraded, it will be necessary to change them.

Any gutter must be waterproofed with **Fester Vaportite® 500**, because these are sections usually covered with water or with mud sediments (see technical data sheet).

2. Primer application

On the cleaned and dried surface, apply with an Airless spraying equipment, paintbrush, brush or plush roller, a coating layer of undiluted **Fester Acriton Sellador®**. The approximate yield is 5 m²/liter, which may vary depending on the type of surface, absorption and roughness. Let it dry 1-2 hours (depending on the weather) and continue with the system application process (see technical data sheet).

3. Critical points treatment

3.1 Cracks and fissures

We recommend backfilling with **Fester Acriton Resanador** that must be applied with a wide trowel flush to the surface, then let it dry 2-4 hours (depending on fissure dimensions), until you can walk on the surface and restauration not be affected (see technical sheet).

3.2. Drain spouts, cold joints, parapets, chamfers, pipe bases, antennas, water tanks and other.

On the area to be reinforced, apply an even coating layer of undiluted **Fester A** and then immediately lay down a sheet of **Fester® Acriflex** or **Fester® Revoflex®**, so it fully covers the surface to be “treated” avoiding any flaws, such as folds or bulging. In areas with high movements, you must consider a reinforcing with a **Fester® FT 201**. Let it dry and continue the application.

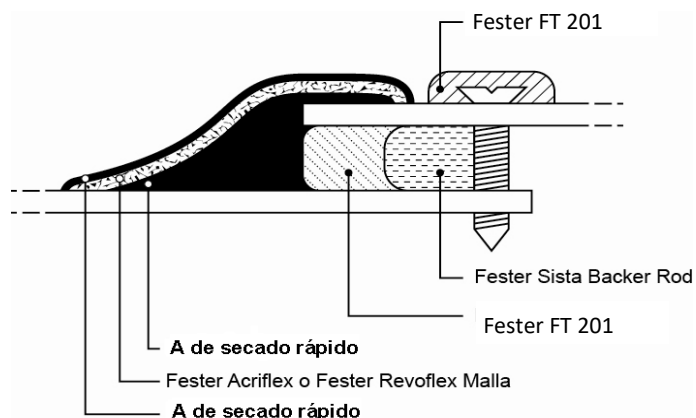
3.3 In sheet roofs, treatment overlaps, ridges, attachment screws and gutters.

Overlaps and ridges must be checked and decide which treatment must be used. It can be with **Fester A**, “backfilling” between two sheets, then with a brush apply it uniformly and lying down a sheet of **Fester® Acriflex** or **Fester® Revoflex** reinforcement meshes. If the sheets do not have significant separations, another option is to use **Fester® FT 201** sealant, which is characterized by its high elongation.

3.4 Transversal overlaps reinforcement

For industrial units, where the roof sheets are very long and expansion is focused on some overlaps and joints, treatment shall be loosening such sheets, separate them and apply **Fester® FT 201**. The objective is the cords between two sheets will work as a bellow and absorb the movement caused by expansion in those points. Next, a parallel sealant cord may be applied on the sheet joint to work as a bridge and support for the bellow. Finally, when the supporting membrane is placed on the overlap with **Fester A**, the risk of a reinforcement break caused by the expansion movement will be reduced.

The screws must be retightened and covered with caps formed with the same **Fester A**. Also, in this case, and if so preferred, you can use **Fester® FT 201** sealant. When considering a reinforcement treatment, be careful not to exceed the tighten the screws to avoid completely “closing” the joint as that would hamper the bellow.



The gutter, overlaps and drain spouts, they can be treated with **Fester® FT 201 Sealant** or **Fester Vaportite® 550**, after placing **Fester® Acriflex** or **Fester® Revoflex**; these elements must be complemented with **Fester Vaportite® 550** and **Fester® Festalum®** (see the technical data sheets).

4. First waterproofing coat

4.1 For surfaces in good conditions, on the previously prepared surface, apply the first coating layer of undiluted **Fester A** in one direction and with a yield of 0.5 liters per m².

Note: the amount indicated is the minimum to be applied. Application can be done with brushes or paintbrushes with natural, synthetic, soft bristles or airless spraying equipment. Let it dry 3 hours before applying the next coating layer.

4.2 For metal sheet roofs, the recommendation is to apply in white color, to avoid heating that can damage the structure due to expansion or derive in too warm interior conditions. Apply the first coating layer of undiluted **Fester A** with a yield of 0.5 liters per m².

Note: the amount indicated is the minimum to be applied. Application can be done with brushes or paintbrushes of natural, synthetic, soft bristles or airless spraying equipment. Let it dry 3 hours before applying the next coating layer.

4.3 For concrete surfaces with high structural movement: where fissures, cracks and very dynamic joints are common or with risk of fissure formation, such as slabs, steel, compressive

mortars, brickworks, prefabricated slabs or too cracked slabs, follow these recommendations:

After preparing and priming the surface, apply the treatment for cracks, fissures, joints and other critical points as indicated in point No. 3, as applicable.

Apply the first coating layer of undiluted **Fester A** all over the surface evenly, or in segments but respecting the yield specifications. In each segment, place **Fester® Acriflex** or **Fester® Revoflex** laying it down to cover 100% of the area to be waterproofed. Avoid folds and bulging on the membrane.

The longitudinal and transversal overlaps of the mesh must be 10 cm minimum. Application must follow one single direction, using brushes or paintbrushes with natural, synthetic, soft bristles (at this point, avoid the use of spray and, in general, of plush rollers use). For this first coat, the yield is 0.75 liters per m² (minimum amount to apply). Let it dry 3-4 hours before applying the next coating layer. (The previous layer of coat must be dry for avoiding bubble formation due to moisture being trapped).

Note: Drying times for the first coating layer in the two previous cases are estimated in sunny day. Otherwise, in cloudy days, when it is possible the product is not totally dry, having a risk of bulging (bubbles), especially in red-color product, due to heat absorption of solar radiation.

5. Second waterproofing coat

Once the first coating layer of **Fester A** is dry, in which supporting membrane could or could NOT be used as in aforesaid cases (according to surface conditions 4.1, 4.2 or 4.3), apply the second coating layer of undiluted **Fester A** with the same technique and yield as the first coating layer. Application direction must be transversal to the first coating layer, except for metal sheets roofs where uniform application must be considered.

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

YIELD

According to surface conditions, as indicated in these points: 4.1 and 4.2. We recommend applying at least 1 liter per m² in two layers.

4.3. We recommend applying at least 1.5 liters per m² in two layers.

In general, yields may vary depending on the roughness, absorption, surface type, mesh used, and application technique. The result will be better as more product is applied and the system will be reinforced.



IMPORTANT INFORMATION

- Always consider for all surfaces, the application prior to **Fester Acriton Sellador**.
- In all cases, the application of **Fester A** can be done with soft ixtle brushes or brushes with natural or soft synthetic bristles or airless spray equipment, in all cases except for **Fester A5 Fibrated**, since the equipment may clog. For the application of **Fester A**, avoid the use of plush rollers.
- Do not apply **Fester A** at a temperature under 5 °C or when there is threat of raining within the drying time .
- Do not place it as base for finishing Roof Tile or Brick, in pools or water-saturated surfaces.
- Do not apply on surfaces poorly adhered to substrate or weathered isolating foams.
- Do not use it in conditions of circulation, vehicular traffic, pedestrian crossing (only moderate and with flat-sole shoes).
- Do not mix it with other products
- Avoid the application on surfaces with a tendency to enduring puddles that result in mud formation. These elements accelerate the degradation of any waterproofing system in such points.
- Do not apply in surfaces saturated with water, or where can be covered with puddles since it may cause bulging (bubbles) when the water trapped below the system evaporates.

PRECAUTIONS

- The application of this product must be done in “open areas”, this is, outdoor surfaces. Avoid handling the liquid product inside closed sites, if it does, the use of a vapor mask is required because it contains ammonia.
- Avoid direct contact of the liquid or vapor product with eyes, skin and airways, since it causes irritation.
- When it is required to handle the liquid product, avoid direct contact with the skin and eyes, using rubber gloves, safety glasses and vapor mask.
- For metal sheet roofs, it is recommended to apply in white color, since other colors cause metal sheet and structure dilata-

tion with the sun heat. This condition may cause system damage in overlaps and screws.

- Any safety measures related to work at heights must be considered (including ladder in optimal conditions, fastenings, life lines, harness among others). In metal sheet roofs, we recommend using planks to make “bridges” and walk on them to reduce risks when working.

CONTAINER AND PACKAGING

STORAGE	Keep in its original container, well closed, stored in a dry place and protect it from sunlight at a temperatura between 15 °C and 30°C
EXPIRATION	24 months
MAXIMUM STOWAGE	4L Bucket: stacks of 5 19L Bucket: stacks of 3

Availability	A3 years	A5 years	A5 years fibrated	A7 years
4 L Bucket	In white and red colors	In white and red colors	Not available	Not available
19 L Bucket	In white and red colors	In white and red colors	In white and red colors	In white and red colors
200 L Drum	Not available	In white and red colors	Not available	In white and red colors

ECOLOGICAL PROPERTIES

Fester A helps to increase the demand of construction materials and products extracted or manufactured in the region, reducing the environmental impact of transportation. In addition, helps the quality of environment, by reducing the amount of pollutants with bad odor, irritating or harmful for the well-being of workers and residents. VOC g/l content is as indicated in the following table:

PRODUCT NAME	VOC (g/L)
WHITES: Fester A3 / A5 / A5 Fibrated and A7	0.39 / 0.27 / 0.27 and 0.27 respectively
REDS: Fester A3 / A5 / A5 Fibrated and A7	0.40 for the 4 products

Production Site: Carretera Panamericana Km 312. Tramo Libre Celaya-Salamanca, Gto. CP. 36700



PHYSICAL PROPERTIES

Test	ASTM Method	Specification	Fester A 3 years	Fester A 5 years	Fester A 5 years-Fibrated	Fester A 7 years
Density, [g /cm ³]	D - 1475	1.25 a 1.37	1.30	1.35	1.36	1.33
Solid percentage [weight]	D - 2369 mod.	51.5 a 61.0	52.0	60.0	60.35	60.3
Brookfield viscosity, [Cps.]	D - 2196	Approval: 34,000 – 39,000	37,000	37,000	38,500	36,700
		Resting (15 days): 42,000 a 55,000	42,000	44,000	44,100	50,000
Contact drying, (20 wet mils), [minutes]	D - 1640	45 a 65	55	55	55	53
Total Drying (20 wet mils), [hours]	D - 1640	2.5 maximum	2	2	2	2
Accelerated weathering (QUV, ultraviolet condensation and spraying), [hours]	G - 53	Complies without damage after:	1,095	1,825	1,825	2,555
Elongation after weathering, [%]	D - 2370	200 minimum	> 200	> 250	> 200	> 350
Stress after weathering [psi]	D - 2370	450 Minimum	> 500	>500	> 600	>550
Cold flexion [-10°C]	C - 711	Complies	Complies	Complies	Complies	Complies
pH	E - 70	10 minimum	10.1	10.5	10.5	10.4
24 month stability	D - 1849	Complies	Complies	Complies	Complies	Complies

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

THERMAL PROPERTIES (APPLICABLE ONLY FOR WHITE)

THERMAL PROPERTIES (APPLICABLE ONLY FOR WHITE)						
Characteristic	ASTM Method	Specification	Fester A 3 years	Fester A 5 years	Fester A 5 years-fibrated	Fester A 7 years
Solar reflectance, [%]	C -1549 - 09	Depending on product	79.3	81.0	81.0	81.4
Thermal emittance,	C - 1371 - 04	0.86 minimum	0.90	0.90	0.90	0.90
Solar Reflectance Index (SRI)	E – 1980 - 11	Depending on product	99.0	101.0	101.0	102.0

Note: The data cited herein were obtained under accrediting laboratory EMA (Mexican accreditation entity).



Henkel Capital S.A. de C.V.,
 Boulevard Magnocentro No 8, Piso 2, Col. Centro Urbano Interlomas, Huixquilucan, Estado de México, CP 52760
 Atención al consumidor: 800-FESTER7 web.fester@henkel.com www.fester.com.mx

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