



Firelce[®]

HDU[™]

HOME DEFENSE UNIT

A GELTECH SOLUTION

Instructional Manual & Parts Guide

Please read the instructions and this disclaimer carefully prior to using the Firelce Home Defense Unit, or HDU. All References in this disclaimer to Firelce HDU shall include Firelce. The Firelce HDU should be used strictly in accordance with these instructions. Failure to adhere to the instructions when using the Firelce HDU may result in property damage, injury, and/or death. GelTech Solutions Inc., or the Company, shall not be held responsible for any loss, injury and/or damage caused by errors, misprints, or misrepresentation of the contents set forth in the instructions or this disclaimer or for any unauthorized or inappropriate use of the Firelce HDU. The user of the Firelce HDU assumes and accepts all risks related to its use. It is extremely important to note that the Firelce HDU should only be used prior to an advancing fire and should not be used to fight or extinguish a fire. In the event of a fire, you should immediately call 911.



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Firelce® Instructional - Home Defense Unit (HDU) Manual



Home Defense Unit Components

- A. HDU Spray Gun
- B. HDU Long Spray Nozzle
- C. Silver Cone
- D. HDU Eductor Head
- E. Allen Screw
- F. Ball Valve Assembly
- G. 3/8" Clear PVC Hose
- H. High Pressure Hose
- I. Firelce® Pro Bucket
- J. Cleaning Brushes

Before You Begin Operating the Firelce® Home Defense Unit

Before using the Firelce® HDU, you will need to properly **BOARD EAVES AND SOCKETS** to protect them from burning embers going up into the attic and creating a potential fire hazard. Make sure to **COVER ALL OPENINGS THAT HAVE ACCESS TO THE ROOF**. Please follow proper recommendations according to your local authorities.

Before beginning to use the Home Defense Unit, it is imperative to do a **PRE-WETTING** of the surface of your structure. Firelce® can be used on any surface, wood, stucco, etc. It is important to **PRE-WET** the surface that you intend to apply Firelce® to, especially wood. Due to the fact that Firelce® is a water based product and **WOOD WILL NATURALLY ABSORB WATER FROM THE PRODUCT**. Simply give the structure an adequate pre-wetting to help add moisture to the walls, windows, and roof. There is never too much water. If in doubt, refer to the HDU instructional video or call GelTech Solutions.

Assembling the Firelce® Home Defense Unit

- 1.) Attach a garden hose to a pressure washer.
- 2.) Attach the **HDU SPRAY GUN (A)** to the **HDU WAND (B)**.
- 3.) Insert the **SILVER CONE (C)** into the **HDU EDUCTOR HEAD (D)**.
- 4.) Attach the **HDU EDUCTOR HEAD (D)** to the **HDU WAND (B)** and tighten the **ALLEN SCREW (E)**.
- 5.) Attach the **PICKUP HOSE (F)** to the ball valve assembly on the **HDU EDUCTOR HEAD (D)**.
- 6.) Attach the assembled Spray Gun and Wand to the High Pressure Hose.
- 7.) Turn the **FIRELCE® PRO BUCKET (I)** upside down and tap lightly to loosen the Firelce® powder. Turn the bucket right side up again and open.
- 8.) Turn on the water source to the pressure washer.

The Firelce® HDU is now ready for use. Take the **3/8” CLEAR PVC HOSE** and insert it into the bucket of Firelce® in order to introduce the powder into the water stream via the ball valve assembly. Each bucket of Firelce® powder will provide you with enough gel to coat up to 1,250 Sq. Ft.

1 Bucket	1,250 Sq. Ft. Coverage
2 Buckets	2,500 Sq. Ft. Coverage
3 Buckets	3,700 Sq. Ft. Coverage
4 Buckets	5,000 Sq. Ft. Coverage
5 Buckets	6,750 Sq. Ft. Coverage
6 Buckets	7,000 Sq. Ft. Coverage
7 Buckets	8,750 Sq. Ft. Coverage
8 Buckets	10,000 Sq. Ft. Coverage

Operating the Firelce® Home Defense Unit

Before you begin the process of coating your home, we recommend that you select a test area and determine the amount of powder necessary to flow through the ball valve assembly. If you have too light of coverage, Firelce® will become runny and begin to drip and slide off of the wall and will not adhere. If there is too much powder being mixed with the water, you'll get a very dry pasty coverage and the product will fall off of the wall. With ideal coverage, Firelce® adheres to the structure properly and has retained the correct amount of water. After you find the proper setting for your ball valve assembly, you can begin the next step.

When applying Firelce® to any surface, you want to apply it in a swift motion, either left to right, or up and down, in order to coat completely. We also recommend that you start from the bottom of the house and move up towards the roof. While applying the Firelce®, keep the Firelce® spray gun moving to create the recommended consistency. As Firelce® is being applied, it creates a protective barrier that will help to keep your building safe from burning flames and embers.

During the application process, you'll want to check the coverage, the Firelce® should be applied as such that it adequately adheres to the surface without dripping or running down. You should be 10 to 12 feet from the structure when applying the product to achieve the maximum protection. If you're too close to the structure, the pressure from the spray gun does not allow you to properly apply the product to the house. It will adhere to the structure, but the pressure as you go back over a covered area, may remove the product.

REHYDRATING is simple and can be easily accomplished by attaching the supplied nozzle that allows you to rehydrate the product and rejuvenate the protective barrier. If after the initial application, the product is not properly adhering to the structure at the recommended coverage levels, you can easily rehydrate with the nozzle. Simply adjust the setting on the nozzle to allow for a light spray, and then fan the water over the existing layer of product. Firelce will also protect the shrubbery, plants, and surrounding landscape. Simply spray directly on the plants in a smooth and even manner to create a protective barrier for the plants and bushes around your home. Firelce® is environmentally friendly and will not harm your plants or bushes when used in this manner.

One of the best features of Firelce® is its ease of cleaning. No pressure cleaning or harsh chemicals are needed to remove Firelce®, the only thing needed is a simple garden hose. The remaining product will work its way safely into the soil. Firelce® is easily removed from stucco, wood, plants, and trees, a simple rinsing is all that's needed. Because of Firelce's® absorption capabilities, as it is moved into the soil, it helps to retain moisture, and offers moisture holding capabilities until it breaks down.

Cleaning the Firelce® Home Defense Unit

1. Turn off the water supply to the pressure washer.
2. Squeeze the **SPRAY GUN (A)** handle to relieve the pressure from the hose.
3. Remove the **PICKUP HOSE (F)** from the HDU Eductor Head ball valve assembly.
4. Remove the **HDU EDUCTOR HEAD (D)** by loosening the **ALLEN SCREW (E)**.
5. Remove the **SILVER CONE (C)** from the **HDU EDUCTOR HEAD (D)**.
6. Thoroughly rinse all components and use the **BRUSH (J)** as needed to remove all Firelce® from all of the components, including the **PICKUP HOSE (F)**, be sure to leave no residual Firelce® on any components.
7. Allow all components to dry before re-assembling your Firelce® Home Defense Unit