

## Millennium Hurricane Force® Universal Sealer

### Description

Millennium Hurricane Force® Universal Sealer is a fast setting, solvent free, multi-use universal sealer that becomes waterproof within minutes of application. The formula is essentially VOC-free making it approved for use in regulated markets such as California and the OTC states. Millennium Hurricane Force® Universal Sealer is a 2-component product that cures via a chemical cross-linking mechanism. Unlike 1-part moisture cure sealants, Universal Sealer will cure consistently and quickly throughout, rather than simply skinning over and remaining tacky on the inside.

### Basic Use

Millennium Hurricane Force® Universal Sealer is a multi-purpose sealer that finds application in:

- Filling penetration pockets and Millennium Lockin' Pocket®
- Repairing splits, cracks, holes, and other membrane defects
- Attaching lightning protection
- Repairing shingles
- All purpose sealing

Millennium Hurricane Force® Universal Sealer eliminates the need for asphalt kettles and solvent based cements. In addition, the low odor, quick setting, solvent free formula offers obvious advantages over high odor, slow setting, solvent based adhesives. Hurricane Force® Universal Sealer is designed for use in all temperatures.

### Approved Substrates

- Concrete
- Gypsum
- Cementitious wood fiber
- Steel
- Gravel surfaced built-up roofs
- Base sheets ( sanded or smooth surfaced)
- Smooth built-up roof surfaces
- Modified Bitumen (sanded or granule surfaced only)
- Metal panels
- Lightweight insulating concrete (LWIC)
- Gravel surfaced built-up roofs
- EPDM
- TPO

For a complete list of approved substrates, or for additional information, contact our Technical Department.



### Features

Ready to use

No temperature restrictions

Essentially VOC free

Solvent free

Elastomeric

### Benefits

Requires no premixing, reduces labor costs

Fast curing even in cold climates

Suitable for use in VOC regulated markets

No odors

Remains flexible, absorbs stresses

### Safety

Prior to working with this or any adhesive product consult product label and Safety Data Sheet (SDS) for necessary health and safety precautions.

### Limitations

- Do not apply to wet or damp surfaces.
- Not intended for insulation attachment.

### Equipment

The fast and dependable One Step™ applicators make applying Millennium Hurricane Force® Universal Sealer simple:

- Millennium One Step™ Battery Powered Applicator
- Millennium One Step™ Pneumatic Single Bead

### Storage

Keep temperature of contents between 65°F-85°F (18°C-29°C) 24 hours prior to use. Do not store in direct sunlight or temperatures higher than 90°F (32°C).

## Application

1. With a utility knife, remove the molded tips at the groove from the One Step™ mixing head.
2. Attach a One Step™ mixing nozzle to the threaded mixing head.
3. Place the cartridge into the appropriate One Step™ applicator.
4. **IMPORTANT!: Dispense an initial amount of Millennium Hurricane Force® Universal Sealer into a waste container to ensure a proper mix, then discard.**
5. Apply Hurricane Force® Universal Sealer directly to the substrate. If needed, use a small trowel to work the material into the required opening or defect. **CAUTION!: All substrates must be completely dry prior to the application of sealer.**
6. When used as a penetration pan filler: When filling the Millennium Lockin' Pocket® with Hurricane Force® Universal Sealer, the entire pocket must be filled, no grouts or fillers will be accepted. Approved pitch pans must be filled with a minimum of 2" (5.1cm) of Hurricane Force® Universal Sealer and in accordance with all of Royal's current application instructions. Penetrations must be prepared by wire brushing to remove loose cements, residual sealer, rust, or other contaminants. If pocket or penetration is damp prior to application, thoroughly dry or wipe with a solvent wipe or primer wipe and allow to dry before adding sealant.
7. Unused material can be applied at a later date by simply plugging the cartridges (with provided half moon plugs) and using a new One Step™ mixing nozzle.

## Surface Preparation

All work surfaces should be clean, dry, and free of dirt, dust, debris, oils, loose and/or embedded gravel, un-adhered coatings, deteriorated membrane and other contaminants that may result in a surface that is not sound or is uneven. For applications on granule surfaced modified bitumen membranes, remove all loose granules from the surface of the membrane prior to installing Millennium LPS.

When Hurricane Force® Universal Sealer is to be used in a Lockin' Pocket® installed on a single ply membrane, the surface of the membrane must be prepared according to the single ply manufacturer's recommendations. As a general guideline the following methods of surface preparation shall apply:

- EPDM: Clean with splice wash or surface cleaner and prime with manufacturer's EPDM primer
- TPO: Clean with surface cleaner and prime.
- Gravel BUR's: Remove gravel surfacing down to plies.

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**WARRANTY:** Royal Adhesives and Sealants warrants its products to conform to Royal's specifications at the time of sale when tested according to Royal standards. If a product is proven to be defective when tested according to Royal standards, Royal will, at its option, refund the purchase price or replace or repair the defective product. THIS LIMITED WARRANTY IS THE BUYER'S SOLE AND EXCLUSIVE REMEDY AGAINST ROYAL ADHESIVES AND SEALANTS AND IS IN LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. In no event shall Royal be liable for any special, incidental, consequential, or punitive damages arising out of any claims whether based on negligence, contract, warranty, strict liability or otherwise.



## Surface Preparation Cont.

For applications over existing weathered asphalt or coal tar pitch BUR, apply Millennium Universal Primer prior to the application of Hurricane Force® Universal Sealer. For applications over fresh and/or non-oxidized asphalt, coal tar or plastic film membranes, apply Millennium Surface Treatment prior to the application of Hurricane Force® Universal Sealer.

## Packaging and Coverage

Millennium Hurricane Force® Universal Sealer is available in the following package:

### North America

<u>Cartridge Size</u>	<u>Part #</u>	<u>Cartridges/Case</u>
1.5 Liter	HF-US15-04	4

### Europe, CIS, and Middle East

<u>Cartridge Size</u>	<u>Part #</u>	<u>Cartridges/Case</u>
1.5 Liter	HF-US15-04EU	4

Each cartridge will produce approximately 125-150 lin ft (38m-46m) of a 1/2" (1.3cm) wide bead.

When used as a penetration pan filler, one case of four (4) cartridges will yield approximately 367 cubic inches of filler.