



Physical Property	Typical Value	Test Method
Appearance	White, Gray	-
Application Temperature (Ambient)	20 °F to 90 °F (-6 °C to 32 °C)	-
Solids Content by Volume	100%	-
VOC Content	0 g/l	ASTM C1250-05
Hardness, Shore A	>90	ASTM C2240
Tensile Strength	>425psi	ASTM D638
Elongation	>250%	ASTM D638
Tear Resistance	>100pli	ASTM D624
Low Temperature Crack Bridging (10 cycles, -15 °F)	Pass	ASTM C1305
Solar Reflectance (white)	80	ASTM C1549
Thermal Emittance (white)	89	ASTM C1371
Solar Reflectance Index (white)	100	ASTM E1980
Spread of Flame, Class A	Pass	ASTM E108

Description

Henry® Pumadeq™ Flex 30SL is an elastic waterproofing membrane based on polyurethane-modified methyl methacrylate (PUMA) technology. PUMA technology combines the speed of PMMA technology in its application, with the elasticity of Polyurethane technology. PUMA technology exhibits much greater elongation and flexibility than PMMA technology, with excellent low temperature crack bridging performance.

Pumadeq Flex 30SL can be applied on horizontal surfaces with or without reinforcing fleece.

Features

- Cures within 1 hour, including temperatures below 40 °F (4 °C)
- Abrasion, Puncture, and UV Resistant
- Superior Elasticity vs PMMA
- Excellent low temperature crack bridging without the need for reinforcement
- Solvent-free
- No VOC's

Usage

Pumadeq Flex 30SL forms a horizontal waterproofing membrane in the **Henry® Pumadeq System**. **Pumadeq System** applications are used for:

- Protected Membrane Roofing
- IRMA
- Plaza Decks
- Green Roofs
- Split Slabs
- Parking Decks
- Balconies and Walkways
- Water Retention

Application

Site conditions: Provide odor control, including air fans and exhausts.
 Seal air intakes with activated carbon filters, nearby windows and doors.

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Ensure a constant supply of “fresh air”, required to remove monomers (heavier than air) from the resin surface and allow for cure.

Surface preparation: All surfaces should be prepared as per the approved **Pumadeq System** specification.

The surface temperature must be at least 5 °F (-15 °C) above the dew point and rising. Use a surface dew point meter. Air and surface temperatures must be between 20 °F (7 °C) and 90 °F (32 °C).

For temperatures below 40 °F (4 °C) consult Henry® Product Support: 800-486-1278.

Any surface or previous application of **Pumadeq System** must be free of dust and contaminants that would impair adhesion of **Pumadeq Flex 30SL**. If the surface is contaminated or overcoat times between **Pumadeq** resins exceed 48 hours, wipe with **Henry® Pumadeq Cleaning Fluid** and clean cloths. After **Pumadeq Cleaning Fluid** evaporates (15 minutes), apply **Pumadeq Flex 30SL** within 1 hour or re-apply **Pumadeq Cleaning Fluid**.

If there are any doubts about the suitability of a substrate, further advice should be sought from Henry® Product Support and a small trial area applied and tested appropriately.

Product mixing: Prior to using **Pumadeq Flex 30SL**, it must be thoroughly mixed, using an electric, slow speed (300-400rpm), high torque drill with a clean, spiral, mixing paddle (Jiffy type, size according to material amount mixed), to achieve a uniform distribution of the catalyst and paraffin contained in the product.

Only catalyze the amount of material that can be applied within the estimated pot life (10-15 minutes).

Be aware that temperature conditions vary in different areas of a project and at different times of day. Adjust catalyst accordingly. It is recommended to start by catalyzing 1 gallon of any **Pumadeq Flex 30SL** to determine pot life.

- 1) Pre-mix the **Pumadeq Flex 30SL** for minimum 1 minute
- 2) Then mix resin together with **Henry® Pumadeq Catalyst**, for 1 minute minimum
A 1 volume oz. scoop is provided with each pail of catalyst
- 3) Catalyst blend is added in accordance with an average of resin, ambient and substrate temperatures guidelines:
At temperatures below 40 °F (4 °C), consult Henry® Product Support: 800-486-1278.
40 °F (4 °C) → add 10 volume oz. per gallon resin
50 °F (10 °C) → add 8 volume oz. per gallon resin
60 °F (16 °C) → add 6 volume oz. per gallon resin
70 °F (21 °C) → add 4 volume oz. per gallon resin
80 °F (27 °C) → add 3 volume oz. per gallon resin
90 °F (32 °C) → add 2 volume oz. per gallon resin

Do not mix new material with old, uncured material as this can significantly reduce work times. Use new pails frequently.

Pot Life: 10-15 minutes if **Pumadeq Catalyst** mix volumes are followed. The working time of all **Pumadeq System** materials will be influenced by the amount of **Pumadeq Catalyst** added, the length of time they are mixed, how quickly they are removed from the mixing pail, and the substrate and ambient temperatures. Apply onto substrate and spread to prolong working time.

Product Application: For best results, use small batch sizes (start with 1 gallon). After mixing thoroughly, pour onto primed deck in evenly spaced strips, as soon as possible. **Pumadeq Flex 30SL** is applied evenly by 3/8” (10 mm) V-notched squeegee, back rolled with a spiked or medium nap (1/2” / 13mm) roller and brush.

Do not install **Pumadeq Flex 30SL** beyond cured primer.

Extend **Pumadeq Flex 30SL** one (1) inch (25 mm) beyond anticipated area of fabric reinforcement (if used). Roll or brush fabric for proper adhesion and removal of voids, folds, and wrinkles.

Lap adjoining fabric edges a minimum of three (3) inches (76 mm).

Ensure voids at edges of **Henry® Pumadeq Fleece** are filled with **Pumadeq Flex 30SL**.

Due to its elastic properties **Pumadeq Flex 30SL** can be applied with or without **Pumadeq N-Fleece** reinforcement. Rates unreinforced different for PMR, Pedestrian + Vehicular (over unoccupied/occupied space).

Application Rate Reinforced: Install one (1) layer of **Pumadeq Flex 30SL** at 30 sq.ft./gal.

Back coat **Pumadeq N-Fleece** with **Pumadeq Flex 30SL** before applying on vertical surfaces.

Apply second layer of **Pumadeq Flex 30SL** at 50 sq.ft./gal.

Total rate for two coats = 20 sq.ft./gal.

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Application Rate Unreinforced: Install first (1) layer of gray **Pumadeq Flex 30SL**, at 30 sq.ft./gal.
Apply second (1) layer of white **Pumadeq Flex 30SL**, at 50 sq.ft./gal.
Total rate for two coats = 20 sq.ft./gal.

Allow for saturation of rollers and brushes.

Rates will change depending on substrate profile (>CSP 3-4).

WFT-DFT (Wet and Dry Film Thickness): 80 mils (reinforced) – will vary for unreinforced depending on spec.

Re-coat and Traffic Times: Minimum 1 hour. If the surface is contaminated or overcoat times exceed 48 hours, clean with a clean cloth and **Pumadeq Cleaning Fluid**. Allow **Pumadeq Cleaning Fluid** to evaporate before over coating. **Pumadeq Flex 30SL** must be applied after 15 minutes minimum, 1 hour maximum of **Pumadeq Cleaning Fluid** application or **Pumadeq Cleaning Fluid** will have to be re-applied. MEK or Acetone can also be used, following the same procedures.

Product restrictions and limitations: If under catalyzed or mixing not thorough, the resin will not cure (remain sticky and smell). It must be completely removed by scrapping and wiping with **Pumadeq Cleaning Fluid**.

NOTE: Before using **Pumadeq Flex 30SL**, please refer to Safety Data Sheet (SDS). Ensure the same safe working methods are followed for all persons in the work area. Wear suitable protective clothing, butyl rubber or nitrile gloves, and safety goggles with side shields during mixing and application.

When **Pumadeq Flex 30SL** is applied in enclosed areas without natural ventilation, forced ventilation must be arranged.

Avoid strong concentration of vapor as well as direct contact with skin or eyes.

If concentration exceeds recommended limits in SDS, a NIOSH approved respirator (OSHA 29 CFR 1910.134) is required.

Pumadeq Flex 30SL has a low flashpoint; keep away from all sources of ignition and do not smoke.

Uncured polymers, resins and catalyst powder may be toxic. They may cause allergic reactions or hypersensitivity reactions.

Contact with skin – wash immediately with soap and water.

Contact with eyes – rinse immediately with lots of water and seek medical attention.

Coverage

Application rates should be adjusted to meet each project's specified requirements. Coverage rates are theoretical and do not take into account material loss due to project conditions and working methods.

- For Henry® System Warranty and Gold Seal Warranty requirements, refer to the appropriate approved Henry® specification for application and coverage rate requirements.

Clean-up

Clean-up of tools and equipment may be accomplished by using **Pumadeq Cleaning Fluid**, Acetone, or MEK. Read and follow all Health and Safety instructions on SDS. Wash body with soap and water. Ensure all materials are mixed and cured before disposal, in accordance with federal, state and local regulations. Dispose of all packaging in accordance with federal, state and local regulations.

Packaging

5 gallons in metal pails

Colors

White
Gray

Shelf Life/ Storage

One year in unopened containers stored between 50 °F (10 °C) and 75 °F (24 °C) under dry, ventilated conditions and out of direct sunlight. Storing the material at a higher temperature may reduce its shelf life. Keep in an upright position and do not over stack.

For more information, visit www.henry.com or for technical assistance call us at 800-486-1278. For more information on Henry's® product warranty and liability disclaimer please visit www.henry.com/warranty. Refer to the Safety Data Sheet prior to using this product. The Safety Data Sheet is available at www.henry.com or by emailing Henry® Product Support at productsupport@henry.com or by calling 800-486-1278.

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~~The technical and application information herein is based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature~~

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