

# TECHNICAL DATA SHEET

## HHPL FLEX SEAL PLUS

**STYRENE-ACRYLIC COPOLYMER DESIGNED TO MODIFY CEMENT INTO A FLEXIBLE WATERPROOFING MEMBRANE**

### Description

HHPL Flex Seal Plus is a two compound styrene-acrylic copolymer specially developed for waterproofing applications. It has excellent water and alkaline resistances. Its clear film is flexible, tack free and resistant to hydrolysis. It has a fine particle size for high pigment binding capacity.

### Product Uses

As a flexible Waterproofing Cement

- **Bathrooms**
- **Blind walls**
- **Basements**
- **Swimming pools**
- **Podiums**
- **Terraces**
- **Expansion joints**
- **Exterior walls**

### Product Features

After mixing with Cement compound

**Bonding:** Excellent bonding property, will bond onto cement, sand, polyurethane, and bitumen surfaces. Therefore it can be coated over existing waterproofing membrane layer.

**Flexibility:** Cured coating is elastic, flexible, and very stretchable with excellent contour conforming ability

**Weathering:** It is a chemically stable product, resists UV ageing, temperature changes, and re-mains impermeable to water

# HENDRICKS

**Withstands wide temperature changes:** Does not blister or soften at higher temperature; re-mains supple and flexible at lower temperature

**Chemical resistance:** Resistance to mild acid and alkaline solution

**Tough and resilient:** Resistance to mild acid and alkaline solution

**Environmentally friendly:** It does not contain organic solvent, does not pollute, flame resistance, safe to use

### Physical and Chemical Properties

Solid content	54 ± 1 %
PH value	7.5 – 8.5
Viscosity	1000 – 1500 Cps (LVT, 4/60/26°C)
Working Temperature Range	-20°C to 100°C

### Instruction for Application

#### Preparation

All surfaces to be waterproofed should be sound, clean and dry. Concrete surfaces should have a light steel-trowel smooth finish and followed by a fine hair-broom or equivalent finish which is dry and free of dust, oil and other contaminants. All high spots should be removed. Moss and lichen must be removed physically followed by treatment with fungicidal wash to kill any spores and inhibit further growth. After treatment wash down thoroughly with clean water and allow drying. All metal surfaces should be made clean of paints, oils, rust and other contaminants. Abrade to expose bright metal then wipe clean with Solvent (Thinner AAA) prior to priming.

## Cracks

All shrinkage and non-moving structural cracks should be pre-treated with not less than a 1.0 mm. coating of **HHPL PCM 1 Cement Strengthener** extending 75mm either side of the crack. Allow to cure overnight before general application.

## Right Angle Bends

All right angle bends must have a cant strip or curving detail installed. This may be formed in either sand-cement triangle corner fillet and it must be coated with a layer of **HHPL Flex Seal Plus** then be given a reinforcing pre-treatment by application of a 1 mm thick coat extending 150mm either side of the lap joints. Whilst still wet, a 150mm wide strip of **HHPL fibre mat** is embedded into the **HHPL Flex Seal Plus** as reinforcement (ensure thorough wetting). All other angles, joints, protrusions and stress points should be pre-treated with a heavy application of **HHPL Flex Seal Plus** extending 50-100mm either side of the detail. Reinforcement with **HHPL fibre mat** is recommended where movement is anticipated. Allow pre-treatments to cure overnight before general application.

## Application

**HHPL Flex Seal Plus** should be applied by brush, trowel, or squeegee (two coat application for standard grade on vertical surfaces) at a minimum wet film thickness of 3 mm

## Mix Ratio

### HHPL Flex Seal Plus

#### Part A (Liquid) +Part B (Cement Compound)

**1 + 0.25 by Volume**

Or

### HHPL Flex Seal Plus

#### Part A (Liquid) +Portland Cement

**1 + 0.25 by Volume**

- During application, the slurry should be mix well without seeing the polymer floating above.
- It can be applied over damped surface.

## Application Method

	1 <sup>st</sup> Coat	2 <sup>nd</sup> Coat
<b>Roof Top/ Balcony/ Basements</b>	<b>Part A + Part B</b>	<b>Part A + Part B</b>
<b>Toilet/ Bathroom</b>	<b>Part A + Part B</b>	<b>Part A + Part B</b>
<b>Swimming Pool</b>	<b>Part A + Part B</b>	<b>Part A + Part B</b>
<b>Exterior Wall (New)</b>	<b>Part A + Part B</b>	<b>Part A</b>
<b>Exterior Wall (Existing)</b>	<b>Part A</b>	<b>Part A</b>

## Flood Test

If a water test is to be run, the membrane should be fully cured and prior to placement of protection, flood the area to be flood tested to a minimum depth of 50mm of water for 24 hours. Drains shall be plugged and barriers placed to contain the water.

## Curing and Protection

**HHPL Flex Seal Plus** membrane must be cured for a minimum of 24hours @ 25°C before placing protection. Where damage to the membrane is possible (by traffic or backfilling, etc.) it should be protected by a cementitious screed or protection boards. A dust coat of cement should be used to prevent sticking of the membrane with protection placement.

## Supply and Coverage

**Supply** 5kg / 10 kg / 20 kg  
(Weight of the Cement compound not included)

**Coverage** 0.5 kg / m<sup>2</sup> per 3 mm thickness.

# MATERIAL SAFETY DATA SHEET



## HHPL FLEX SEAL PLUS

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### Product Information and Company Identification

Product Identification	HHPL Flex Seal Plus
Product Use	Waterproofing Membrane
Company Identification	HENDRICKS Holdings Private Limited 114/2, Thumbowila, Piliyandala Sri Lanka
Telephone	(+94) 115 741 133
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### First Aid Measures

#### Swallowed

Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

#### Eye



If this product comes in contact with eyes, Wash out immediately with cold water immediately for at least 15 minutes. If irritation continues, seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

#### Skin



If skin or hair contact occurs, Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.

#### Inhaled



If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.

#### Advice to Doctor

No specific antidote. Treat symptomatically.

## Accidental Release Measures

**Spills** Confine the spill to a small area. Use a commercial kit or absorbent material to absorb spilled materials. Place spilled material in a container for disposal.

## Handling, Storage and Shelf Life

**Handling** Keep out of reach of children. Harmful if swallowed. Causes eye irritation and skin sensitivity. Avoid eye, skin & clothing contact. After work, remove protective clothing and equipment, wash hands before eating, drinking, Smoking or using toilet. Wash clothing after use.

**Storage** Do not mix or store in galvanized or unlined steel vessels. Store in tightly closed original container in a cool, dry, well-ventilated and secure area when not in use. Do not store with food, feedstuffs, Seed or fertilizers. Once open, use within one month and make sure to keep it sealed within the original container.

## Shelf life

HHPL Flex Seal Plus has a shelf life of 8 months if kept below 25°C in the original, unopened condition.

## Disposal Considerations

### Disposal Method

Triple rinse empty containers before disposal. Do not burn empty containers that have not been rinsed. Burn in an appropriate incinerator if circumstances such as wind direction permit. Otherwise crush or puncture and bury in a suitably approved landfill. Do not dispose of this product down drains or sewers. Follow all local, regional and national laws and regulations regarding hazardous waste disposal.

## Transport Information

### Transport limitations

Do not carry this product on a public passenger vehicle. No limitation on non-passenger vehicles. Must be transported in original sealed and labeled container.

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