

# HYPERCOAT-688\_Dryflex

High performance, waterproofing liquid membrane

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ITLS INTERNATIONAL DEVELOPMENT CO., LTD

## Description

HY-688 Dryflex is consisted of hybrid polymer with modified EVA and acrylic to reach the range of high performance, one-component, seamless, and cold-applied liquid waterproofing membrane.

## Use

- Indoor: bathroom, kitchen & terrace
- Outdoor: roof, floor joint, parapet and wall

## Feature

- Single pack, liquid-applied, easy to apply.
- Excellent hydrolysis resistance.
- Still can curing when apply on the moisture surface without observed water.
- The middle layer of the tile, the top coating or each cement-based finished surface.

## Note

- The product should not be applied at temperatures below 5°C or above 35°C, surface humidity content >15%, or if humid conditions are expected to prevail during the curing period of the paint film. Otherwise, blisters will be created on the surface of the coating, leading to aesthetic issues.
- If under specific ambient conditions: extreme weather, high heat, strong sunlight, fierce-dry winds, or the application surface is under high absorbing situation, the time of application will be shortened.
- AFTEK auxiliary product: **AFTEK exclusive primer**.
- Substrate types to be primed in advance:
  - Sandy surface or full of powder-like ingredients
  - Very absorbent and brittle surfaces
  - Damp concretes
- Suggest thickness is 1mm under two-times applied. After more than 1hour or the surface drying, no sticking, the second layer could be applied.

## Technical Data and Property

Ambient temp. at 25°C		
Packaging	4 gal /pail	
Appearance	Liquid resin	
Specific gravity	1.15 - 1.25 g/ml	
Solid content	(59±2.0) %	
Viscosity	3500 - 4500 cps ( RVT#7 )	
Consumption	One layer	0.6 - 0.8 kg/m <sup>2</sup>
	Num. of layer	minimum 2 layers
	Dry film thickness	0.8 - 1.0mm (Theoretically)
<i>**The actual amount would vary depends on the present condition of the substrate.</i>		
<i>**Avoid any excess coating on working surface, it will cause aesthetic issue to the finish surface, like shrinkage cracks.</i>		
Tool	spray, broom, roller, brush	
Thinner & coverage	water (up to 5% of mixture)	
Auxiliary product & coverage	CA-002 or CA-107 primer (theoretical coverage: 0.2 - 0.3 kg/m <sup>2</sup> )	
Applying Condition (1mmTH)		
Ambient temp.	5 - 35°C	
Surface humidity	<15%	
Reaction time	25°C	30°C
Tack free time	≤ 2 hours	≤ 1 hour
Recoating time	1-2 hours	1-2 hours
Curing time	≥ 24 hours	≥ 12 hours
Technical Property		
Hardness (1 sec.)	Shore A 45 - 55 (CNS 6986)	
Bond strength (3000psi concrete)	>10 kgf/cm <sup>2</sup> (CNS 6986)	
Tensile strength	>15.0 kgf/cm <sup>2</sup> (CNS 6986)	
Tearing strength	>10.0 kgf/cm (CNS 6986)	
100% modulus	>6.0 kgf/cm <sup>2</sup> (CNS 6986)	
Elongation	>500% (CNS 6986)	
Water durability	Immersed under water for 28days: unaffected. (CNS 10757)	

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## Application

### • Regular substrate preparation

1. **On sandy, dusting concrete:**  
Remove the surface by grinding off the thin layer of laitance to expose the solid concrete underneath, and using a vacuum cleaner or a leaf blower to clean off the surface.
2. **Crack filling:**  
Apply tile adhesive mortar as cracking putty, which is mixed by the right water-cement ratio.  
*\*Repair process: surface cleaning as above-mentioned → spread some water on the working surface, remove any observable water → crack filling.*
3. **Maintenance after preparation:**  
Apply appropriate methods to maintain the surface (refer to construction guide provided by the supplier of the filling material used), and make sure that the repaired areas have reached required strengths before follow-ups.

### • Primer application

1. **Theoretical coverage of primer:** 0.2 - 0.3 kg/m<sup>2</sup> (after diluted with 2 to 3 parts of clean water); the amount of consumption must be adequate to cover and penetrate into the substrate, and the primer should be spread evenly, controlling the permeability.
2. Dilute CA-002 or CA-107 primer properly referring to the present ambient conditions, then apply single- or double-layer to the working surface, then **wait about 15 - 30 minutes after skinning (at 25°C).**
3. If the primer remains on the surface and start skinning, please remove the whole layer and start over. It is not functional for primer which is not penetrate properly into the substrate.
4. The primer should be spread evenly; any excess or uneven material on the substrate should be rolled over immediately during the application.

### • Application process

1. The work surface should be sound, dustless and removed all the debris.
2. After stirring the product in the original container, apply it on the working surface 2 - 3 layers.  
*\*Please refer to **Technical Data and Property form on page 1** about the recommended consumption info of the product. Still, the actual consumption amount may vary depends on ambient conditions. If there is any question, please contact with AFTEK tech depart. for consultation or evaluation.*
3. **Recoating:** Wait about 1 to 2 hours or tack-free to apply the next layer after the color of the membrane is become lightened. Apply the layers horizontally and then vertically, so as to reduce any chance of leaks to the minimum.
3. The product should be used up as soon as possible after opened; do not leave it in the container for too long.

### • Maintenance

After the application is finished, the product should be left to set for at least 24 hours; the curing time should be extended under some circumstances: humid environment, low temperature, or lack of proper ventilation.

*\*if water test is needed, please evaluate the condition of the site first, and apply the test when the timing is right.*

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## Storage

- Product should be kept in the original sealed packaging in dry places and at a temperature comprised below 40°C.
- Store under cover, out of direct sunlight, protected from extreme temperatures.
- Excessive humidity and over exposure to UV will result in the reduction of shelf life.

Under the storage conditions mentioned above, the shelf life of the product is up to 12 months after manufactured, and it is better be used up within 6 months to achieve the best performance.

Failure to comply with the recommended storage conditions, may result in premature deterioration of the product or packaging. In that case, **AFTEK** do not take responsibilities under the circumstances.

## Health and Safety

- Suitable protective workwear (e.g. cotton overalls, safety glasses with side shields or chemical goggles) should be wearing during the application.
- Avoid contact with eyes, skin, and avoid breathing heavily in vapor.
- Eye contact: Irrigate immediately with water for at least 10 minutes until irritation subsides.
- Inhalation: If inhaled, remove affected person from contaminated area. Keep at rest until recovered.
- Ingestion: Do not induce vomiting. Wash out mouth thoroughly with water.
- Skin contact: Wash affected area thoroughly with soap and water.
- If any symptom develops seek medical attention.

## Disclaimer

*This is not a specification and all information are given in good faith based on AFTEK 's current knowledge and experience.*

*Since conditions of use are beyond AFTEK's control, information contained herein is without warranty, implied or otherwise, and final determination of the suitability of any information or material for the use contemplated, the manner of use and whether there is any infringement of patents is the sole responsibility of the user.*

*The product has been tested by AFTEK's Technical Service department and third-party verification institutions, and all the data is organized, checked properly in order to offer the most complete info to whom is needed. Yet, AFTEK does not assume any liability in connection with the use of the product relative to coverage, performance or injury.*

*Preliminary testing is necessary. It is recommended to request AFTEK to evaluate the conditions due to the variety of substrates, and to bring out the best performance of our product and the applications.*

*If there is any further question, please consult AFTEK for application details, and refer to the most recent issue of the local Technical Data Sheet for the product concerned, copies of which will be supplied on request.*

*For more safety information, please refer to the MSDS released on each AFTEK product.*