

HY-609_U6 Hypercoat 609

Water-based PU, modified bitumen membrane

Sheet 1 of 3



ITLS INTERNATIONAL DEVELOPMENT CO., LTD

Description

HY-609_U6 Hypercoat is water-based PU with modified bitumen, moisture cured polyurethane membrane. With a mix of high performing water-based PU resin from overseas, imported high quality natural rubber filler and emulsified asphalt to perform superior water resistance.

Use

- Waterproofing applications on roof, bathroom, terrace, underground external wall, and gardening area.
- Can be followed by waterproofing, heat insulation protective coatings.

Feature

- It is a breathable material and can be applied to damp surfaces.
- Has particularly good adhesion with cement so can be used directly as a soft-base for tile-laying.
- Can be subjected to long periods of immersion in water without bubbling.

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.
- It is not exposable, please keep it from sunlight and hot environment; the heat will shorten the life span of the product.
- It is natural if setting phenomenon has occurred, just stir the material thoroughly before using.
- It is not compatible with silicone, please avoid any contact or using the two at the same time. HY-609_U6 contains asphalt which will contaminate silicone, causing stains on the object. (e.g. during window glazing application, silicone sealant is used to seal the parameter; if the sealant contact with HY-609_U6, stain marks will show up in a short period of time and almost impossible to remove)

Technical Data and Property

Ambient temp. at +25°C		
Packaging	5 gal (approx. 20kg) /pail	
Appearance	deep brown viscous liquid	
Specific gravity	1.15~1.20	
Solid content	63~66%	
Viscosity	12000~16000 cps (RVT#3)	
Consumption	Total coverage	approx. 1.5 kg/m ²
	Num. of layer	2 - 3 layers
	Theoretical dry film thickness	1.0~1.5mm <i>*Avoid any excess coating on working surface, it will cause aesthetic issue to the finish surface.</i>
<i>*The actual amount would vary depends on the present condition of the substrate.</i>		
Tool	roller; brush; broom	
Thinner & coverage	water (add 5% - 10% of mixture)	
Auxiliary product & coverage	CA-002 or CA-107 primer (theoretical coverage: 0.2 - 0.3 kg/m ²)	
Applying Condition		
Ambient temp.	+5 - 35°C	
Surface humidity	<15%	
Reaction time	+25°C	+30°C
Tack free time	< 20 min.	< 15 min.
Recoating time	> 4 hours	> 3 hours
Curing time	> 72 hours	> 48 hours
Technical Property		
CNS 8644		
Hardness (1 sec.)	Shore A 25~27	
Bond Strength (3000psi concrete)	> 8.0 kgf/cm ²	
Tearing strength	> 3.0 kgf/cm	
Tensile strength	> 6.0 kgf/cm ²	
Elongation	> 600%	
Tensile product	> 100 kgf%/cm	
100% modulus	> 6.0 kgf/cm ²	

HY-609_U6 Hypercoat 609

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Sheet 2 of 3



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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/m²; the amount of consumption must be adequate to cover and penetrate into the substrate, and the primer should be spread evenly.
2. Dilute CA-002W 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. 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.*
2. **Recoating:** Wait 30 minutes to apply the next layer after the color of the membrane is become darkened.
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 72 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.*

HY-609_U6 Hypercoat 609

Water-based PU, modified bitumen membrane

Sheet 3 of 3



ITLS INTERNATIONAL DEVELOPMENT CO., LTD

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 15 minutes until irritation subsides. If irritation persists, seek medical attention.
- Inhalation: If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms persist seek medical attention.
- Ingestion: Do not induce vomiting. Wash out mouth thoroughly with water. If symptoms develop seek medical attention.
- Skin contact: Wash affected area thoroughly with soap and water. If symptoms develop 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.