

# HYPERCOAT-568

High performance waterproof coating

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ITLS INTERNATIONAL DEVELOPMENT CO., LTD

## Description

HYPERCOAT-568 is a single-component, high-strength water-based waterproof coating composed of modified copolymer, which has both waterproof and thermal insulation effects, and has good water resistance and weather resistance.

## Use

- Bathroom, Balcony, Terrace
- Roof (flat/sloping)
- Floor seams, parapet
- Suitable for old and new waterproof engineering made of acrylic or PU material

## Feature

- Can be used immediately after opening the bucket, easy to use, suitable for DIY users
- Good adhesion to cement
- Can be directly tiled or exposed directly after drying
- Good water and UV resistance, forming excellent weatherability
- After completely curing, the water-proof layer of the roof is walkable.
- Can effectively block heat transmission
- Waterproof repair for new and old metal iron roofs

## Note

- Avoid applying material in adverse weather, high temperature, hot sun, strong dry wind, or plains; avoid construction when it is rainy or when the surface is wet with clear water. If it must be applied in hot summer weather, avoid 1 hour before and after noon.
- If there is a need for structural reinforcement (such as strengthening of cracks), it can be used with polyester fiber or non-woven fabric.
- Avoid excessive build-up and single coating thickness, which can cause cracking or slow material drying.

## Technical Data

<b>Ambient temp.: 25°C, 50±5% R.H.</b>		
Packaging	15 kg/pail	
Appearance	white, gray liquid	
Solid content	56 - 60%	
Dynamic viscosity	4000 - 5000 cps (DIN ISO 3219)	
Specific gravity	1.4±0.05 (DIN EN ISO 2811-2)	
Consumption (cementitious surface)	0.2 - 0.8 kg/m <sup>2</sup> (1 coat) at least 2 coats	
<i>1. The actual amount would vary depends on the present condition of the substrate.</i>		
<i>2. Avoid any excess coating on working surface, it will cause aesthetic issue to the finish surface, like shrinkage cracks.</i>		
Tool	airless spray, roller, brush	
Diluent	Maximum 5% water	
Auxiliary product & coverage	CA-002 or CA-107 primer (theoretical coverage: 0.2 - 0.3 kg/m <sup>2</sup> )	
Storage temp.	5 - 35°C	
Shelf life	12 months after manufactured	
<b>Application Conditions</b>		
Ambient temp.	5 - 35°C	
Substrate temp.	< 40°C	
Substrate humidity	< 15%	
	25°C	30°C
Skin time	approx. 1 hr.	approx. 40 - 50 min.
Recoating time*	approx. 3 hr.	approx. 2 hr.
<i>* approx. when the color of coating is start to change.</i>		
Full cure	approx. 7 days	approx. 1 day
<b>Technical Property</b>		
Shore A hardness	approx. 70 - 75 (ASTM D2240)	
Bonding strength	> 15.0 kgf/cm <sup>2</sup> (CNS 8644)	
Tensile strength	> 30.0 kgf/cm <sup>2</sup> (CNS 8644)	
Elongation	> 300% (CNS 8644)	
Tear strength	> 15 kgf/cm (CNS 8644)	
Water resistance	No abnormality after 28 days water immersion (CNS 10757)	

*\*\*Unless otherwise stated the data above refer only to the sample(s) tested.*

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## Application

### • Regular substrate preparation

- **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.
- **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.*
- **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 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.
4. 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 between 5 - 35°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 does not take responsibilities under the circumstances.**

## Health and Safety

- 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 is 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.*