

## TW71 Polymer Modified Cementitious Waterproofing (Liquid)

### MATERIAL SAFETY DATA SHEET MSDS-EN-TW71-0214

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**Section 1 Chemical Product and Company Identification**

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Product Name: TW71 Polymer Modified Cementitious Waterproofing (Liquid)  
Manufacturer Information: TAMMY Energy-saving Building Materials (Beijing) Co., Ltd  
Add: Room 902, Macro Link Industrial Mansion, #5 Jiachuang Road, Tongzhou District, Beijing, P. R. China  
Postal Code: 101111  
Email: tammy@thmaterials.com  
MSDS Code:  
Fax: 86-10-68318106  
Phone: 86-10-68315916

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**Section 2 Composition/Information on Ingredients**

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TW71 Polymer Modified Cementitious Waterproofing is a kind of chemical mixture.

Material Name	CAS No.	Percentage	EC Danger Sign
Acrylic acid	25085-34-1	25-35	
Water	7732-18-5	65-75	

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See section 16 for more information

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**Section 3 Hazards Identification**

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According to the regulations, this product has not been included in the hazardous category.

Health Risk Pathways: Inhalation, ingestion, skin and eye contact  
Hazard Description: This product contains weak alkaline. Alkaline substances will cause severe burns to the eyes, cause burns to the skin and cause ulcer. When weak alkaline solution in contact with the skin, it may destroy the nerve terminals so as to cause severe chemical burn to the skin before people feel the pain. Ingestion will stimulate gastrointestinal tract, or even cause dizziness and hobble.

Physical and Chemical Hazards: This product will pollute the atmosphere, air and soil.

Environment: The discharge of the mixture with liquid or water into the waterways and soil must obey the local regulations and laws.

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**Section 4 First AID Measures**

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If there is any issues or symptoms continues, please seek medical help.

Skin Contact: Take off the contaminated clothes, wash skin with soap and water, or personal skin detergent. Do not use solvent or diluent.  
Eye Contact: Hold eyelids apart, flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.  
Ingestion: Do not induce vomiting. Take rest and get medical attention.  
Inhalation: Immediately transfer to fresh air, keep respiratory tract unobstructed. If breathing is irregular or stopped, immediate cardiopulmonary resuscitation should be given, and

send to a doctor as soon as possible.

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**Section 5 Fire Fighting Measures**

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Hazardous Characteristics: N/A  
Decomposition Product: N/A  
Flammability Rating: Incombustible  
UFL: N/A  
Combustion and Explosion Hazard: Doesn't cause combustion or explosion  
LFL: N/A  
Fire Extinguishing Method and Fire Extinguishing Agent: Suitable for use as the fire extinguishing material.  
Firefighting Precautions: Firefighter should wear protective clothing including ventilator set..

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**Section 6 Accidental Release Measures**

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Personal Precautions: Wear a dust mask and protective clothing, refer to Sections 8.  
Cleaning Methods: Collect the leak materials to the special container to prevent emission into the sewer, river, basement, soil or enclosed area. Wash the pollution area with plenty of water to dilute the remaining liquid, then discharge the waste water to the treatment system, or to absorb it with activated carbon or other inert materials. Avoid the contacting of the spill liquid with soil. In case of spillage, immediately notify the local or national related departments.

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**Section 7 Handling and Storage**

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Handling Procedure: Physical clean is required after operation, then rinse thoroughly with water.  
Storage Procedures: Store in a cool, dry, well-ventilated area. Protect from moisture and rain. Keep the package sealed. Storage temperature range between 5°C and 35°C.

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**Section 8 Contact Control/Personal Protection**

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Engineering Control: Keep well ventilation  
Respiratory Protection: Wear a mask, select the appropriate respirator; Regularly check the respiratory system, lung function and skin  
Eyes Protection: Wear safety glasses  
Body Protection: Wear protective clothing, avoid repeated or prolonged skin contact, working clothes should be changed every day  
Other Protection: Eye washer and emergency shower device are recommended

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**Section 9 Physical and Chemical Properties**

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Appearance:	Milky white liquid, slight ammoniac		
pH:	7-9 (10g/L H <sub>2</sub> O)	Critical Temperature (°C) :	N/A
Melting Point (°C) :	N/A	Critical Pressure (°C) :	N/A
Boiling Point (°C) :	N/A	The Octanol / Water Partition Coefficient Logarithms Value:	N/A
Relative Density (Water=1):	1.0-1.1	Flash Point (°C) :	N/A
Viscosity:	300-800	Ignition Temperature (°C) :	N/A
Relative Vapor Density (Air=1):	N/A	Upper Explosive Limit (V/V) :	N/A
Saturated Vapor Pressure (kPa) :	N/A	Lower Explosive Limit (V/V) :	N/A
Heat of Combustion (kJ/mol) :	N/A		
Solubility:	Soluble in water	Other Properties:	N/A

Main Uses: Mixed with powder. Suitable for kitchen, bathroom, balcony, basement and pool waterproofing.

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**Section 10 Stability & Reactivity**

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Stability: Stable under normal conditions

Possibility of Reaction: The product won't decompose when stored and used under normal conditions.

Possibility of Hazardous Reactions: Non

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**Section 11 Toxicological Information**

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Acute Toxicity: Non

Subacute and Chronic Toxicity: Non

Irritation: Non

Sensitization: Non

Mutagenicity: Non

Teratogenicity: Non

Carcinogenicity: Non

Other: Non

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**Section 12 Ecological Information**

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Ecological Toxicity: Slight toxicity to aquatic organisms, affect the demanded biochemical oxygen.

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**Section 13 Disposal Considerations**

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Waste Type: Hazardous waste Industrial liquid waste

Waste Disposal: Material and packaging will be recycled or treated based on the existing laws and regulations.

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**Section 14 Transportation Information**

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Road and Rail Transportation Rating: Not classified as dangerous

Ocean Transportation Rating: Not classified as dangerous

Air Transportation Rating: Not classified as dangerous

Packaging: Bag, pile

Package Class: Class III

Transportation classification may vary based on the container volume and different countries and regions.

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**Section 15 Regulatory Information**

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This product does not belong to dangerous goods management scope based on the existing law and regulations.

Issue Date: 2015.1.18

Data Auditing:

Issue By: Technical Department

Other Information: The full text of dangerous substances please refer to clause 2.

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**Section 16 Other Information**

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Disclaimer: The use and transportation of this product must be in strict accordance with the instructions. The product needs to be mixed with powder. It's suitable for kitchen, bathroom, balcony, basement and pool waterproofing. Without the company's confirmation or explanation, this product cannot be used for other purposes, Otherwise the company will not bear the relevant responsibility.



## TW71 Polymer Modified Cementitious Waterproofing (Power)

### MATERIAL SAFETY DATA SHEET

MSDS-EN-TW71-0727

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**Section 1 Chemical Product and Company Identification**

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Product Name: TW71 Polymer Modified Cementitious Waterproofing (Powder)  
Manufacturer Information: TAMMY Energy-saving Building Materials (Beijing) Co., Ltd  
Add: Room 902, Macro Link Industrial Mansion, #5 Jiachuang Road,  
Tongzhou District, Beijing, P. R. China  
Postal Code: 101111  
Email: tammy@thmaterials.com  
MSDS Code:  
Fax: 86-10-68318106  
Phone: 86-10-68315916

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**Section 2 Composition/Information on Ingredients**

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TW71 Polymer Modified Cementitious Waterproofing is a kind of chemical mixture.

Material Name	CAS No.	Percentage	EC Danger Sign
Silica Sand	14808-60-7	50-65	R20
Portland Cement	65997-15-1	30-45	R36/37/38、R41
Polymer		0-5	R36/38

See section 16 for more information

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**Section 3 Hazards Identification**

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According to the regulations, this product has not been included in the hazardous category.

Health Risk: Pathways: Inhalation, ingestion, skin and eye contact  
Hazard Description: When cement containing material mixed with water or moisture, it can produce high alkaline. Alkaline substances will cause severe burns to the eyes, cause burns to the skin and cause ulcer. When strong alkaline solution in contact with the skin, it may destroy the nerve terminals so as to cause severe chemical burn to the skin before people feel the pain.  
Cement containing material may still cause irritation and allergic dermatitis until its solidification.

Physical and Chemical Hazards: The dust will not cause explosion in the air.

Environment: The discharge of the mixture with liquid or water into the waterways and soil must obey the local regulations and laws.

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**Section 4 First AID Measures**

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If there is any issues or symptoms continues, please seek medical help.

Skin Contact: Take off the contaminated clothes, wash skin with soap and water, or personal skin detergent. Do not use solvent or diluent.

Eye Contact: Hold eyelids apart, flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

Ingestion: Do not induce vomiting. Take rest and get medical attention.

Inhalation: Immediately transfer to fresh air, keep respiratory tract unobstructed. If breathing is irregular or stopped, immediate cardiopulmonary resuscitation should be given, and

send to a doctor as soon as possible.

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**Section 5 Fire Fighting Measures**

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Hazardous Characteristics: N/A  
Decomposition product: N/A  
Flammability Rating: Incombustible  
UFL: N/A  
Combustion and Explosion Hazard: Doesn't cause combustion or explosion  
LFL: N/A  
Fire Extinguishing Method and Fire Extinguishing Agent: Suitable for use as the fire extinguishing material.  
Firefighting Precautions: Firefighter should wear protective clothing including ventilator set.

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**Section 6 Accidental Release Measures**

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Personal Precautions: Wear a dust mask and protective clothing, refer to Sections 8.  
Cleaning Methods: Use dry cleaning tools to collect all the inert materials, avoid dust, and avoid contact with water. If there is no pollution to the materials, it still can be reused. Collect the materials with the shovel or appropriate tools to the appropriate container. Treat the materials according to the laws and regulations. Because this product can cause hydration reaction with water generating hard solid, so it should not be wash down directly into the sewer, which will cause sewer blockage.

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**Section 7 Handling and Storage**

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Handling Procedure: Physical clean is required after operation, then rinse thoroughly with water.  
Storage Procedures: Store in a cool, dry, well-ventilated area. Protect from moisture and rain. Keep the package sealed.

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**Section 8 Contact Control/Personal Protection**

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Engineering Control: Keep well ventilation  
Respiratory Protection: Wear a mask, select the appropriate respirator; Regularly check the respiratory system, lung function and skin  
Eyes Protection: Wear safety glasses  
Body Protection: Wear protective clothing, avoid repeated or prolonged skin contact, working clothes should be changed every day  
Other Protection: Eye washer and emergency shower device are recommended

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**Section 9 Physical and Chemical Properties**

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Appearance:	Odorless grey powder		
pH:	12-13 (10g/L H <sub>2</sub> O)	Critical temperature (°C) :	N/A
Melting Point (°C) :	N/A	Critical pressure (MPa) :	N/A
Boiling Point (°C) :	N/A	The Octanol / Water Partition Coefficient Logarithms Value:	N/A
Relative Density (Water=1):	1.2-1.4	Flash Point (°C) :	N/A
Relative Vapor Density (Air=1):	N/A	Ignition Temperature (°C) :	N/A
Saturated Vapor Pressure (kPa) :	N/A	Upper Explosive Limit (V/V) :	N/A
Heat of Combustion (kJ/mol) :	N/A	Lower Explosive Limit (V/V) :	N/A
Solubility:	Slightly soluble	Other Properties:	N/A

Main Uses: Mixed with liquid. Suitable for kitchen, bathroom, balcony, basement and pool waterproofing.

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**Section 10 Stability & Reactivity**

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Stability: Stable under normal conditions, Keep dry before use  
Avoid Contact Conditions: This product may react with water.

Incompatibility: Acid, ammonium salt, steel

Incompatibility: Acid, ammonium salt, steel

Possibility of Hazardous Reactions: Non

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**Section 11 Toxicological Information**

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Acute Toxicity:	Non
Subacute and Chronic Toxicity:	Non
Irritation:	Non
Sensitization:	Non
Mutagenicity:	Non
Teratogenicity:	Non
Carcinogenicity:	Non
Other:	Non

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**Section 12 Ecological Information**

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Ecological Toxicity:	No risk to the environment
Environmental Stability:	In water, reaction with water to generate solids
Bioconcentration or Bioaccumulation:	Deposited in soil

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**Section 13 Disposal Considerations**

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Waste Type: Hazardous waste Industrial solid waste

Waste Disposal: Material and packaging will be recycled or treated based on the existing laws and regulations.

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**Section 14 Transportation Information**

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Road and Rail Transportation Rating: Not classified as dangerous

Ocean Transportation Rating: Not classified as dangerous

Air Transportation Rating: Not classified as dangerous

Packaging: Bag, pile

Package Class: Class III

Transportation classification may vary based on the container volume and different countries and regions.

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**Section 15 Regulatory Information**

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This product does not belong to dangerous goods management scope based on the existing law and regulations.

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**Section 16 Other Information**

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Issue Date:	2015.1.18	Data Auditing:	
Issue By:	Technical Department	Other Information:	The full text of dangerous substances please refer to clause 2.

Disclaimer: The use and transportation of this product must be in strict accordance with the instructions. The product needs to be mixed with liquid. It's suitable for kitchen, bathroom, balcony, basement and pool waterproofing. Without the company's confirmation or explanation, this product cannot be used for other purposes, Otherwise the company will not bear the relevant responsibility.