



艾铠士®

Next-Generation Waterproof Material

2 0 2 4

艾铠士® 防水新材料 *The pinyin for 艾铠士 is "aikaishi."

Contact: info@druitech.com

www.druitech.com



Contents



01.Elastic Epoxy Construction Sealant

02.Flexible Epoxy Negative Pressure
Waterproof Coating

03.Non-Invasive Leak Repair for Elastic
Epoxy Roof Waterproof Coating

04.Flexible Epoxy Waterproof Sealant



Contents



05. Penetrating Epoxy
Waterproof Primer

06. Transparent Waterproof Coating
(Tempered Film)

07. Two-Component Corner Sealant



Contents



08. Performance and
Environmental Testing

09. Material Application Cases



Glass Joint Waterproofing



Tile Roofing Non-Invasive Waterproof Repair

01.

Elastic Epoxy Construction Sealant



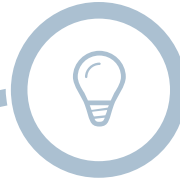
Applications:

Waterproof sealing of concrete cracks,
window frames, glass joints, and profile joints.



Key Advantages:

Adheres to damp surfaces and can cure underwater.



Standards:

JC/T 881-2017

Environmental Testing:

SGS certified.



Packaging Specifications:

400ml (single unit).





Eco-friendly



Strong adhesion



High elasticity



Aging resistant



Acid and alkali resistant



Resistant to high and low temperatures

Solid Content	>95%	Elongation Rate	>200%
Drying Time	12h	Bonding Strength	Dry Surface 2.77mpa
Elastic Recovery Rate	24h, >80%		Damp Surface 2.57mpa
Theoretical Consumption	≈1.4g/cm ³		



Usage Instructions:

Clean the surface of free water, oil, dust, and loose materials. Use a dual-component caulking gun for application; discard approximately 20cm of unmixed material from the front. After filling, compact and smooth the material using a tool (it is recommended to use caulking tools). If the temperature is below 15°C, it is recommended to warm the caulking material using a heating pack before application.



Precautions:

Residual paint on skin and tools can be cleaned with alcohol of over 75% concentration. Chemical products should be kept out of reach of children; if ingested, seek medical attention immediately.



Transportation and Storage:

Protect from moisture and high temperatures during transportation. The product should be stored in a dry, cool place, with a recommended storage temperature of 5–30°C. The shelf life under sealed conditions is 24 months.



Waterproof Sealing for Building Expansion Joints



Non-Invasive Leak Repair for Terrace Joints

01.1

Elastic Epoxy Construction Sealant (Exposed Type)



Applications:

Building expansion joints, expansion joints,
settlement joints, waterproof sealing.

Mixed bonding of construction materials such as
concrete, metal, and glass.



Product Density:

1.4g/cm³

Core Advantages:

Adheres to damp surfaces and can cure underwater.

Standards:

Complies with JC/T 881-2017

Environmental Testing:

SGS Certified

Packaging Specifications:

5kg/set (two buckets)





Eco-friendly



Strong adhesion



High elasticity



Aging resistant



Acid and alkali resistant



Resistant to high and low temperatures



Instructions for Use:

Clean the surface of visible water, oil, dust, and other impurities; reinforce loose bases with a special primer. Mix components A and B in a 1:1 ratio; stir thoroughly. Use a spatula or similar tool to fill joints with the mixed gel, and smooth out the surface. In lower temperatures, soak the gel bucket in water at 50-60° C to reduce viscosity for easier application.



Precautions:

Clean paint from skin and tools with alcohol above 75% concentration. Keep away from children; seek medical attention immediately if ingested or if there are adverse reactions.



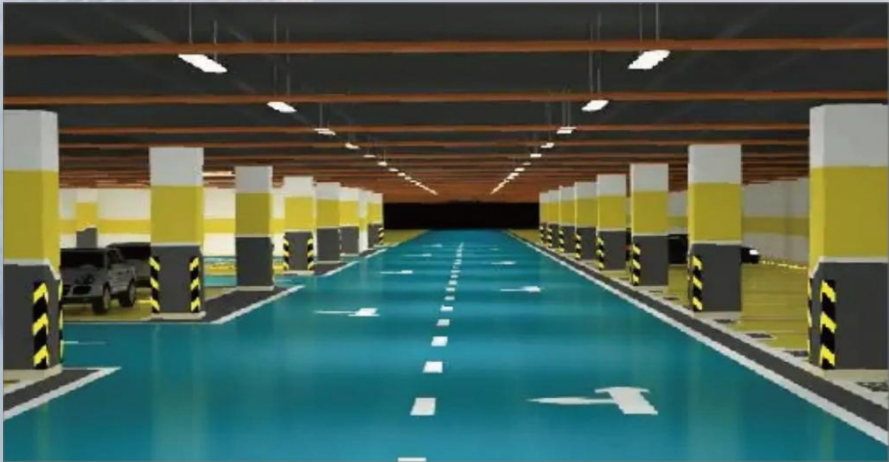
Transportation and Storage:

Keep moisture-proof and high-temperature resistant during transport. Store in a dry, cool place; ideal storage temperature is 5-30° C. Shelf life in sealed conditions is 24 months.

Solid Content	>95%	Elongation Rate		>200%
Drying Time	12h	Bonding Strength	Dry Surface	2.77 MPa
Elastic Recovery Rate	24h, >80%		Damp Surface	2.57 MPa
Theoretical Coverage	≈1.4g/cm ³			



Elevator Shafts



Basements

02.

Flexible Epoxy Negative Pressure Waterproof Coating



Applicable Scope:

Waterproofing, anti-seepage, and anti-corrosion projects for various building back surfaces (basements, tunnels, elevator shafts).

Keywords: Indoor waterproofing and moisture-proofing, specifically addressing wall efflorescence and seepage (commonly known as "wall cancer").

Environmental Testing:
SGS certified.

Standards:
Corporate Standards.



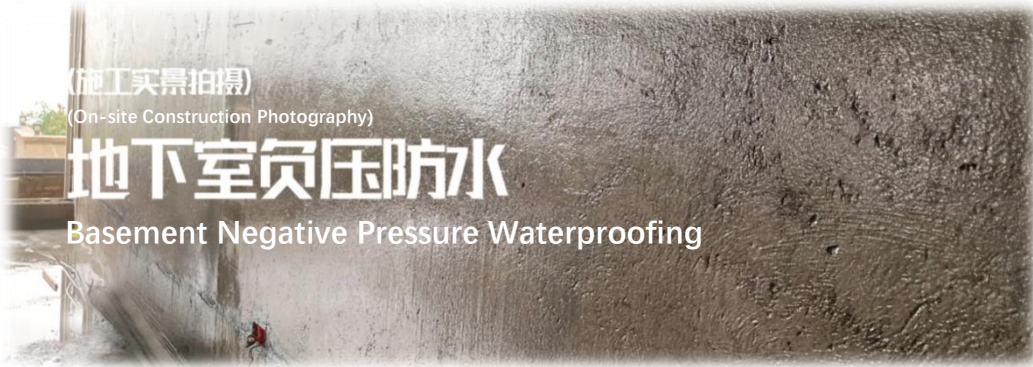
Large Packaging

9.25kg/set, coverage area: approximately 20m²



Small Packaging

1.85kg/set



Formaldehyde-Free



Strong Adhesion



High elasticity



Corrosion Resistant

Solid Content	>95%	Elongation Rate		>100%
Drying Time	6h	Bonding Strength	Dry Surface	2.5 MPa
Tensile Strength	3.5 MPa		Damp Surface	2.0 MPa
Theoretical Coverage	1mm film thickness, approx. 1kg/m ²			



Instructions for Use:

Clean the construction surface of oil, dust, and loose materials. Use quick-drying cement or similar materials to repair and level surface pits; sand the surface after drying. Mix components A and B in a 1:1 ratio and stir well; apply using a brush or roller. Fully cure after 12 hours.



Precautions:

Residual paint on skin and tools can be cleaned with alcohol above 75% concentration. Chemical products must not be handled by children; seek medical attention immediately if ingested.



Transportation and Storage:

Transportation: Moisture-proof, high-temperature resistant, avoid pressure and impact.
Storage: Store in a ventilated, dry, and cool place; shelf life in sealed condition is 24 months.



Concrete Roof



Metal Roof

03.

Non-Invasive Leak Repair for Elastic Epoxy Roof Waterproof Coating



Applications:

Used for waterproofing and impermeability of concrete, metal, and wooden roofs.

Environmental Testing: SGS Certified

Standards:
Complies with GB/T16777-2008



Large Package:

10kg/set, Coverage: approx. 8 m²



Small Package:

2kg/set, Coverage: approx. 1.6 m²



High Elasticity



Corrosion Resistant



Bonding Strength



Eco-friendly



Easy to Apply

Solid Content	>95%	Elongation Rate		150-200%
Drying Time	6h	Bonding Strength	Dry Surface	2.5 MPa
Tensile Strength	3.0 MPa		Damp Surface	2.0 MPa
Theoretical Coverage	1mm film thickness, approx. 1.2kg/m ²			



Instructions for Use:

Clean the base surface of oil, dust, and loose materials. Repair and level pits on the construction surface; sand the surface after drying. Apply a special primer to strengthen the base surface; cures to a film in about 2 hours. Apply two coats of elastic waterproof coating, with a 24-hour interval; final thickness should be 1-2 mm.



Precautions:

Clean paint from skin and tools with alcohol above 75% concentration. Keep away from children; seek medical attention immediately if ingested or if there are adverse reactions.



Transportation and Storage:

Transportation: Moisture-proof, high-temperature resistant, avoid pressure and impact. Storage: Store in a ventilated, dry, and cool place; shelf life in sealed condition is 24 months.



Bathroom Waterproof Sealing



Stone Dry Hanging Adhesive

04.

Flexible Epoxy Waterproof Sealant



Applications:

Used for waterproof sealing of indoor tiles, stones, and bathroom joints; can also be used for bonding various building materials.

Environmental Standards:
GB/T18583-2008

Standards:
Complies with JC/T547-2017



Packaging Specifications:
400ML/tube



Eco-friendly



Aging Resistant



Flexibility



High Strength



Strong Adhesion



Easy to Apply



Instructions for Use:

Ensure that the surfaces to be bonded are free of oil, water, and other impurities; in special cases, the bonding surfaces may need to be sanded or reinforced.

Use a caulking gun to apply the sealant; discard the initial 20 cm of unblended gel to avoid affecting adhesion.

If needed, use a special finishing tool to enhance the appearance after application.

In colder winter environments, if the gel thickens, use a specialized heating pack to reduce viscosity before application.



Precautions:

Keep away from children.

If skin or objects are contaminated with the material, dissolve and wipe with alcohol or anhydrous ethanol; rinse with clean water, and seek medical attention if discomfort occurs.



Transportation and Storage:

Transportation: Moisture-proof, high-temperature resistant, avoid pressure and impact.

Storage: Store in a ventilated, dry, and cool place; shelf life in sealed condition is 24 months.

Solid Content	>95%	Density	1.4 kg/L
Surface Dry Time (23° C)	4h	Elastic Recovery Rate	>80%
Bonding Strength	≥2.5 MPa	Breaking Elongation Rate	>100%



Closure of Concrete "Spider Cracks"



Penetration Reinforcement for Concrete Cracks

05.

Penetrating Epoxy Waterproof Primer

for Surface Strengthening - 2 Hour Quick
Drying



Applications:

Used to seal micro-pores on concrete surfaces, enhancing
the strength of the concrete surface.

Standards:
Complies with JCT-1015-2006



Large Package:

8 kg/set, Coverage: approx. 30 m² (with a level surface)



Small Package:

1.2kg/set, Coverage: approx. 4 m² (with a level surface)



Fast Curing



High Penetration



High Strength



Corrosion Resistant

Solid Content	>95%	Initial Viscosity	500~1000mpa. s
Surface Dry Time	2h	Bonding Strength	3.5mpa
Theoretical Usage	0.3kg/m ²		



Usage Instructions:

Clean the surface of free water, oil, and other impurities; new concrete needs to be polished.

Mix materials A and B at a ratio of 3:1, stirring for about 1 minute.

Application can be done by brushing, rolling, or spraying, fully covering small pores and cracks on the base surface.

The surface will dry in about 2 hours. After full curing, it forms a yellow, transparent, smooth, and hard film.



Precautions:

The mixed liquid must be used within 15 minutes.

Clean skin and tools with alcohol containing more than 75%.

Keep chemical products out of reach of children; if ingested or if discomfort occurs, seek medical treatment immediately.



Transportation and Storage:

During transportation: protect from moisture and high temperatures, avoid squeezing.

Storage: keep in a ventilated, dry, and cool place. Shelf life under sealed conditions is 24 months.



Bathrooms



Indoor Swimming Pools

06.

Transparent Waterproof Coating (Tempered Film)



Applicable Scope:

Suitable for waterproofing on surfaces such as concrete, tiles, glass, and metal (non-invasive leak repair without dismantling), widely used for waterproofing kitchens, bathrooms, and pools. Transparent and colorless, it does not alter the original appearance.

Coverage Area:
approximately 4m² (on a flat surface)

Standards:
JC/T 2217-2014



Packaging Specifications:
0.8kg/set



Eco-friendly



Resistant to High and Low Temperatures



Strong Adhesion



Acid and Alkali Resistant



Usage Instructions:

Clean the surface of free water, oil, and dust. Clean with alcohol containing more than 75%, keeping the surface absolutely dry. Mix parts A and B in a 3:1 ratio and stir evenly. Use immediately after mixing, and finish using within 15 minutes. Let it sit for 4-6 hours after coating. Once dry and non-sticky, it is ready for use.



Transportation and Storage:

Protect from moisture and high temperatures during transportation. The product should be stored in a dry, cool place with a recommended temperature of 5-30°C. Shelf life is 24 months under sealed conditions.

Item	Test Conditions	Test Results
Appearance	Part A	Transparent Colorless Liquid
	Part B	Transparent Colorless Liquid
Mixed Viscosity	25° C	3000-4000mpa. s
Mixing Ratio	Weight Ratio	A:B=3:1
Surface Drying Time	25° C	2.5-3h



Used for High-End System Doors and Windows

07.

Two-Component Corner Sealant



Application Scope:

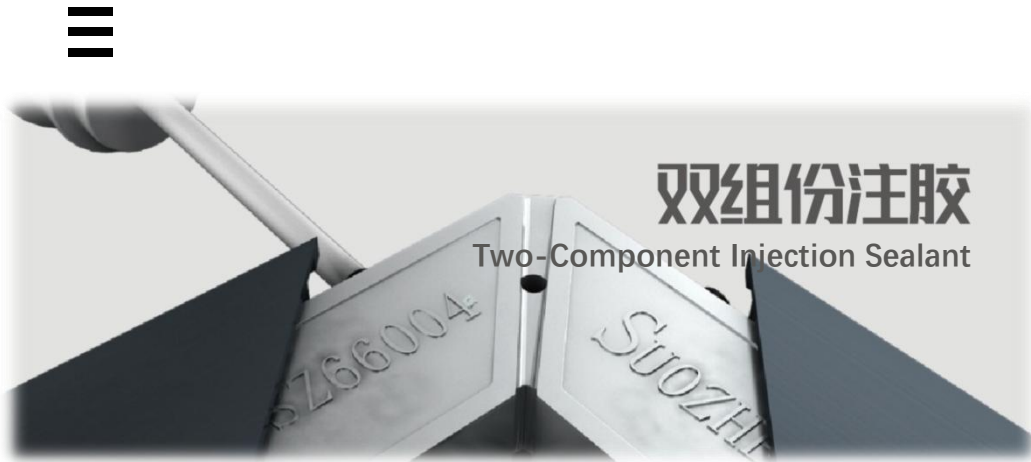
Open and Closed-Profile Injection Process

Reference Usage:
 $1.3\text{g}/\text{cm}^3$



Standards:
JC/T 2560-2020

Packaging Specifications:
600ml/tube



Slight Elasticity



Eco-friendly



Solvent-Free



Solids Content



Resistant to high and low temperatures

	National Standard	Foreign Competitors	Domestic Competitors	Two-Component Corner Adhesive
Bending Deformation	≥4mm	6-8mm	4-6mm	>18mm
Shear Strength at Room Temperature	≥3MPa	Above 12MPa	Inconsistent	>16Mpa
Shear Strength at 80° C	≥2MPa	Above 10MPa	2-10MPa	>19Mpa
Shear Strength after Hot and Cold Cycles	≥3MPa	Above 13MPa	4-13MPa	>15Mpa
Environmental Safety	Total Volatile Content ≤5%, Toluene Diisocyanate ≤10g/kg, Benzene ≤1g/kg, Toluene ≤1g/kg	Fully Compliant	Partially Compliant	Total Volatile Content ≤1%, Toluene Diisocyanate = 0, Benzene = 0, Toluene = 0

01

Usage Instructions:

Use a specialized caulking gun for application, and discard the initial 20cm of unevenly mixed sealant to avoid affecting adhesion. In cold weather conditions, when the temperature is lower, the sealant may thicken. Heating can be applied to reduce the viscosity for easier use. Drying time: 2 hours (at a normal temperature of 23° C), allow to stand for 4-12 hours to reach full design strength.

02

Precautions:

Keep out of reach of children. If material contacts skin or objects, use 75% alcohol or anhydrous ethanol to dissolve and wipe off, then rinse with clean water. Seek medical attention if discomfort occurs.

03

Transportation and Storage:

During transportation: protect from moisture and high temperatures, avoid squeezing. Storage: keep in a ventilated, dry, and cool place. Shelf life under sealed conditions is 24 months.



09. Material Application Cases:



Backside Treatment for Basement Floor Slab Seepage in a Military Facility in Hainan



Old Roof Repair and External Wall Seepage Backside Treatment Project of Helen City Plaza, Chengdu



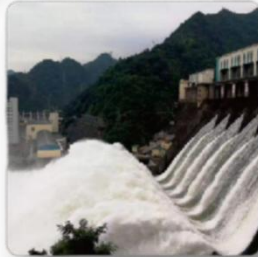
Backside Waterproof Repair of Underground Parking Roof Slab in Relocation Housing District of Jianyang Tianfu International Airport



Old Roof Waterproofing Repair of Chengdu Tianfu Software Park



Surface Protection of a Large Water Diversion Tunnel in Northern Xinjiang



Waterproof Repair of Old Roofing in Chengdu Tianfu Software Park



Leakage Repair of Underground Sports Center for Chongqing Rail Transit Group



Leakage Repair of Underground Garage in Wenrude Residential Area, Chengdu



Backside Waterproof Repair of Underground Parking Roof Slab in Chengdu Benchmark Hotel



Backside Waterproof Repair of Basement in Hefei Hong Kong & Macau Plaza



Leakage Repair of Underground Garage in Evergrande City, Luzhou



Leakage Repair of Underground Garage in Peking University Resources Jade Mansion





THANK YOU

Contact Information

www.druiotech.com

E-mail: info@druiotech.com

2 0 2 4

