

UNIQUE technology

Shaanxi Unique-technology Co.,Ltd

Shaanxi unique-technology co.,ltd is a professional large-scale manufacturer of fiberglass pipe repair wrap and cable armorcast. Our company established in 2005 and have employees more than 500 workers. the equipment, technology and raw materials of our company are imported from Germany . the quality of our products has reached the internationally advanced level. Currently, unique-technology is already exported to America, France, Australia, Italy and 20 other countries and regions. our company has always focused on research, development and innovation, and has recently developed new type of wraps. Unique-technology will initiate the second phase of our development strategy. our company regards “reasonable prices, efficient production time and good after-sales service” as our tenet. We hope to cooperate with more customers for mutual development and benefits.

Mainly Products Introduction

- 01 Fiberglass Pipe Repair Wrap
- 02 Household Repair Wrap
- 03 Cable Protect&Connect Wrap



1. Fiberglass Pipe Repair Wrap



Fiberglass Pipe Repair Wrap is made of fiberglass fabric and coated with water-activated polyurethane resin.

Quick and simple to use with no mixing or measuring required. A successful pipe repair can be achieved in only 30 minutes.

Reference brand: Rappit 3M

Technical Data Sheet

- ⊠ Product: Fiberglass Pipe Repair Wrap
- ⊠ Color: Black / White
- ⊠ Application Method: Wet Lay-up
- ⊠ Melting point: 680°C
- ⊠ Boiling point: >1000°C
- ⊠ Operation time: 3~10 minuets (depend on operation temperature)
- ⊠ Cured time: around 30 minuets after direct exposure to water
- ⊠ Heat Resistance: 0 °C ~ 150 °C
- ⊠ Hardness,Shore D: 70
- ⊠ Warp / Weft Density: 12 roots/cm
- ⊠ Thickness: Single Ply: 30mm \pm 0.5mm (10 Mils \pm 2 Mils)
- ⊠ Fabric Weight: 420 g/m²
- ⊠ Resin Content: 45% \pm 3%
- ⊠ UV Resistance: UV inhibitors added
- ⊠ Toxicity: Non-Toxic.Non-Hazardous.
- ⊠ Shelf Life: 3 years from manufacturer date



Mechanical Properties

- ⊠ Elasticity modulus: 215,000psi (pound/per square inch)
- ⊠ Tensile strength: 6575psi (pound/per square inch)
- ⊠ Application Method: Wet Lay-up
- ⊠ Pressure Withstand: 2900psi (Min wrapping 15 layers, around damage area)
- ⊠ Chemical Resistance: Most Dilute Acids, Brine, Oils, Toulene, White Spirit, Xylene, Sodium Hydroxide, Saturated Soda Solution, Fuel Oils, Kerosene Oil, Acetone, Ethyl Alcohol, Diesel fuel, Caustic Soda 50%



Direction for Use



Wear Gloves



Apply Epoxy Putty



Immerse Tape into Water for 10mins



Wrap Spirally and Firmly



To achieve the best result, the wrap should be more than 10mm thick (10-15 layers). Allow 30 minutes for wrap to set rock-hard.

Applications

01

Oil Gas pipeline
Repair



02

Water Pipeline
Repair



03

Sewer Repair



04

Emergency
Repair



Complementary products-Epoxy putty



The epoxy putty is two sets of same-core glue rod, which cure quickly and have strong adhesion. It can be used for creative combination.

Normally it is used together with fiberglass pipe repair wrap to achieve best repairs.

2. Household Repair Wrap

Household Repair Wrap is made of fiberglass fabric and coated with water-activated polyurethane resin.

Quick and simple to use with no mixing or measuring required. A successful repair can be achieved in only 30 minutes.

Reference brand: Fiberfix



Technical Data Sheet

- ⊠ Product: Household Repair Wrap
- ⊠ Color: Black / White
- ⊠ Application Method: Wet Lay-up
- ⊠ Melting point: 680°C
- ⊠ Boiling point: >1000°C
- ⊠ Operation time: 3~10 minuets (depend on operation temperature)
- ⊠ Cured time: around 30 minuets after direct exposure to water
- ⊠ Heat Resistance: 0 °C ~ 150 °C
- ⊠ Hardness,Shore D: 70
- ⊠ Warp / Weft Density: 9 roots/cm
- ⊠ Thickness: Single Ply: 28mm \pm 0.5mm (10 Mils \pm 2 Mils)
- ⊠ Fabric Weight: 400 g/m 2
- ⊠ Resin Content: 42% \pm 3%
- ⊠ UV Resistance: UV inhibitors added
- ⊠ Toxicity: Non-Toxic.Non-Hazardous.
- ⊠ Shelf Life: 3 years from manufacturer date



Mechanical Properties

- ⊠ Elasticity modulus: 185,000psi (pound/per square inch)
- ⊠ Tensile strength: 5075psi (pound/per square inch)
- ⊠ Application Method: Wet Lay-up
- ⊠ Pressure Withstand: 2610psi (Min wrapping 15 layers, around damage area)
- ⊠ Chemical Resistance: Most Dilute Acids, Brine, Oils, Toulene, White Spirit, Xylene, Sodium Hydroxide, Saturated Soda Solution, Fuel Oils, Kerosene Oil, Acetone, Ethyl Alcohol, Diesel fuel, Caustic Soda 50%



3. Cable Protect & Connect Wrap



Cable Protect & Connect Wrap is applied to reinforce shield and connector of cable. Mostly use in aerial, buried and manhole applications and is Ideal for strengthening old cables, splices and auxiliary seals. No reworking is required, it's ready to wrap straight from the package.

Structural Material Cable Compatibility

- Coaxial, copper, fiber cable types
- Pressurized and non-pressurized cable
- Polyethylene or lead sheathed cable



Features: Melting point: 680°C ; Boiling point: >1000°C; Fireproof ; UV inhibitors

1. Easy to use, wrap on the cable accessories or electric cable directly outside protective layer to form a high strength, can strengthen the mechanical protection of connectors and cables
2. Once wet, the fiber strip becomes tacky and sticks to itself
3. Compatible with coaxial, copper, fiber cables, polyethylene or lead-sheathed cable, pressurized and non-pressurized cable
4. Ideal for strengthening old cables, splices and auxiliary seals
5. Fast and easy to apply, yet hardens to a strong and maintenance-free coating
6. Resists moisture, acids, alkalis, ozone, gasoline and high temperatures
7. Can be used on pressurized or non-pressurized cable and on either polyethylene or lead-sheathed cable

Our certificates



Introduction
Unique Technology High Strength Repair Wrap is made of high density fabric and coated with water-activated polyurethane resin. Quick and simple to use with no mixing or measuring required. A successful pipe repair can be achieved in only 30 minutes. It uses environmental friendly materials, and mainly used for Repair of Gas & Water Pipeline etc. and adheres to Metal, plaster, PVC, Copper, Rubber, Fiberglass, Concrete, Wood, Ceramic, Polyester etc. It can be applied on cracked, fractured, corroded, damaged & leaking pipes, can also be used around different shapes including straight lengths, tee and elbow joints. It is suitable for using on wet or dry pipes. It can even be applied underwater, in fresh or saltwater.

Specifications (The length can be produced as required)
1000 12.5m x 360mm (5" X 12") U700 7.5m x 360mm (3" X 12") U704 15m x 360mm (5" X 12")
1005 12.5m x 360mm (5" X 12") U700 15m x 360mm (5" X 12")

High Strength Repair Wrap Technical Data

Color: Black / White / Yellow / Red / Blue
Wet Lay-up: 3-10 minutes (depend on operation temperature)
curing time: around 30 minutes after direct exposure to water
Heat Resistance: 0°C ~ 150°C
Tensile Strength: 70
Single Ply: 30mm x 0.5mm (10 Mils x 2 Mils)
Tear / Warp Density: 12 notches
Tensile Weight: 420 gm 2
Epoxy Content: 45% ± 3%
UV inhibitors added: Yes
Solubility: Non Toxic; Non-Hazardous
Shelf Life: 3 years from production date

Technical Properties

Tensile modulus: 215,000psi (pound per square inch)
Tensile strength: 85,75psi (pound per square inch)
Tensile Withstand: 2900psi (Min wrapping 15 layers, around damage area)
Tensile Resistance: Most Dilute Acids, Brine, Oil, Toluene, White Spirit, Xylene, Sodium Hydroxide, Saturated Soda Solution, Fuel Oil, Kerosene Oil, Acetone, Ethyl Alcohol, Diesel fuel Cautic Soda 50%.

Direction for Use

1. Clean and roughen the damaged area with the metal file or wire brush, which will help resulting a more successful repair.
2. Put gloves on, open the bag and immerse the bandage in temperate water for 10-15 seconds & squeeze the wrap to let the water soak in evenly.
3. Squeeze out the excess water, apply the wrap spirally around the damaged pipe area. Extending up to 50mm (2") either side of the tested area.
4. When wrapping, put each layer tightly and firmly, using hand to mould and squeeze the layers together in a tightening motion. Continue to apply pressure during application and upon completion.
5. Suggestion: To achieve the best result, the wrap should be more than 10mm thick (10-15 layers). Allow 30 minutes for wrap to set rock hard.

Repair Wrap should be stored unopened in the foil packaging in cool, dry conditions. Under this conditions it will have a shelf life of 3 years. Do not break during shipment. Our factory can reimburse freely.

Unique Technology High Strength Repair Wrap is a urethane pre-polymer which is not classified as hazardous. But gloves should be worn to avoid unnecessary skin



TEST REPORT

No. STD-20200917-002N-2

CX-29-R.04 D-5
Page 1 of 3

Applicant	Shaanxi Unique-technology Co., Ltd.		
Applicant Address	Room 21-12403, Guobin Estate, No. 15th Road Keji 7th, Xi'an Hi-tech Zone, Xi'an Shaanxi		
Contacts	Mandy		
Sample Name	Fiberglass pipe repair bandage	Sample Number	20200917-002001
Type/Serial No.	Type: U7004	Sample Quantity	3 Sets
Manufacturer	Shaanxi Unique-technology Co., Ltd.	Other information	Each set of samples contains a white 10cm x 3.6m fiberglass pipe repair bandage, a 57g adhesive epoxy putty and a pair of gloves
The above information is provided by the applicant and the applicant should answer for its authenticity.			
Received Date	2020-09-17	Sample State	Solid
Finished Date	2020-09-17-2020-09-23	Test Type	Entrusted Test
Test Item	Withstand voltage test		
Test Standard	Methods provided by the client		
Test Conclusion	According to the client's requirement, 1 item of Withstand voltage test is the measured value. The test results refer to page 2.		
Remark	Stamp: Issue Date: 2020/09/23		

Editor: 石学燕

Auditor: 李学

Approver: 梁勇



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E-glass Repair Wrap Material Safety Date Sheet

UNIQUE tech.

1. Identification

Product Identifier
Trade name: E-glass Repair Wrap
Recommended use of the chemical and restrictions on use
Application of the substance / the preparation:
For repairs of kinds of home / industrial / plumbing / motor products

Details of the supplier of the safety data sheet

Manufacturer / Supplier:
Shaanxi Unique-technology Co., Ltd.
Room 21-12403, Guobin Estate, No. 15th Road Keji 7th, Xi'an Hi-tech Zone, Xi'an Shaanxi
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E-mail: mandy@unique-technology.com
Further information obtainable from: Shaanxi Unique-technology Co., Ltd.
Emergency telephone number:
Mandy
Tel: 0086 15929909062

2. Composition / information on ingredients

Chemical characterization: Mixtures
Description: Mixture of the substance listed below with nonhazardous additions
Composition:

65997-15-2	E-glass Fabric	58%
51876-91-2	Polyurethane Resin(1,3-Propanediol,2-ethyl-2-(hydroxymethyl)polymer with bis(isocyanatomethyl)benzene, R2O+0.8%)	42%
43679-1-3	carbon black	1%

3. First-aid measures

Description of first aid measures
After inhalation: Supply fresh air; consult doctor in case of complaints.
After skin contact:
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
After eye contact:
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After swallowing:
Rinse out mouth with water.
If symptoms persist consult doctor.
Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed No further relevant information available.
Indication of any immediate medical attention and special treatment needed

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Our Factory



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