

# Products Introduction

Unique-technology

# 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/m<sup>2</sup>
- ⊠ 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

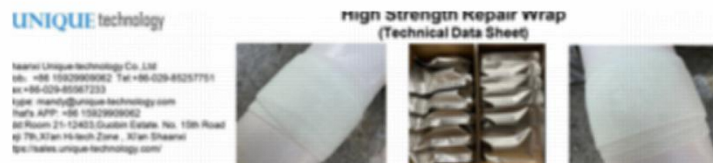
- Coaxial, copper, fiber cable types
- Pressurized and non-pressurized cable
- Polyethylene or lead sheathed cable



**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)**  
1002 5mm\*360mm(2" X 12") U700 7.5mm\*360mm(3" X 12") U7004 15mm\*360mm(4" X 12")  
1005 12.5mm\*360mm(5" X 12") U700 15mm\*360mm(6" X 12")

## High Strength Repair Wrap Technical Data

Color: Black / White / Yellow / Red / Blue  
Application Method: Wet Lay-up  
Curing Time: 3-10 minutes (depend on operation temperature)  
Used Time: around 30 minutes after direct exposure to water  
Test Resistance: 0°C ~ 150°C  
Thickness: 70  
Single Ply: 30mm ± 0.5mm ( 10 Mils ± 2 Mils )  
Tensile Strength: 12 Mpa  
Tensile Modulus: 420 GPa  
Elongation: 40% ± 3%  
UV inhibitors added: Yes  
Non Toxic: Non-Hazardous  
Shelf Life: 3 years from production date

## Technical Properties

Tensile modulus: 215,000psi (pound per square inch)  
Tensile strength: 8575psi (pound per square inch)  
Pressure Withstand: 2800psi (Min wrapping 15 layers, around damage area)  
Chemical Resistance: Most Dilute Acids, Brine, Oil, Toluene, White Spirit, Xylene, Sodium Hydroxide, Saturated Soda Solution, Fuel Oil, Kerosene Oil, Acetone, Ethyl Alcohol, Diesel fuel, Caustic 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		
Contact	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*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

Tel: 0086.29.85257751

Fax: 0086.29.85567233

E-mail: mandy@unique-technology.com

Further information obtainable from: Shaanxi Unique-technology Co., Ltd

Emergency telephone number:

Mandy

Tel: 0086 15029909062

### 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



# Our Factory



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