

Remitite Co., Ltd. www.remitite.com

Main Office & Plants


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Next Generation Advanced Polymeric Materials





Making great strides toward
the most excellent fine chemical company
with a creative mind and a pioneering spirit.



CEO's Greetings

Welcome to Remitite Co., Ltd.

Challenge, Innovation, Integrity! These are the core values of our company.

Remitite Incorporate promises we will continually research, develop and produce the world's best products by constantly meeting challenges and creatively innovating in the fine chemical industry. We also have put our great effort into being a trusted company, which provides top quality products and solutions to our customers.


To continually develop and strengthen the core values of our company, all Remitite family members persistently strive for cooperative spirits and perfection. In doing so, we are creating a community with mutual trust and uncompromising excellence.

We follow domestic and international laws and regulations and do our best to bear social responsibility and live in harmony with nature.

We appreciate any comments and suggestions so that we may improve our services to you. We will continue to do our best in order to be recognized as one of the most innovative and trusted companies in the industry.

Thank you.

박 광 명
Gwangmyeong Park



About our company

Remitite Incorporate since its establishment in 1975 has continuously researched and developed the fine chemical products and solutions. We have focused on improving our products and special materials used for onshore and offshore facilities including nuclear power plants, electronics, automobiles, and railroad vehicles. In addition, we are pioneering advanced techniques for producing materials for aerospace and construction. Remitite is constantly seeking to heighten the leading edge technology to better provide high performing quality products and solutions.

Specifically, we provide world class fire-retardant solutions such as Flexible Fire Seal, Cable & Pipe Penetration Sealing System, Putty Type Sealing Compound, Fire-retardant Silicon Sealant, Fire-retardant, Anti-noise & Anti-vibration Devices and Special Adhesives with J-90, H-120 and A-60 certificates by the leading classification societies such as ABS, BV, DNV, GL, KR, LR, MED, NK and RS.

Remitite has been recognized as the reliable leading edge manufacturer in the fine chemical area by the industry leaders such as Daewoo Shipbuilding & Marine Engineering, Hyundai Heavy Industries, Samsung Heavy Industries, and STX Heavy Industries.

Remitite, the front runner in the fine chemical industry, will continue to face every challenge with a creative spirit as the world top class manufacturer of high technology fine chemicals.

Information

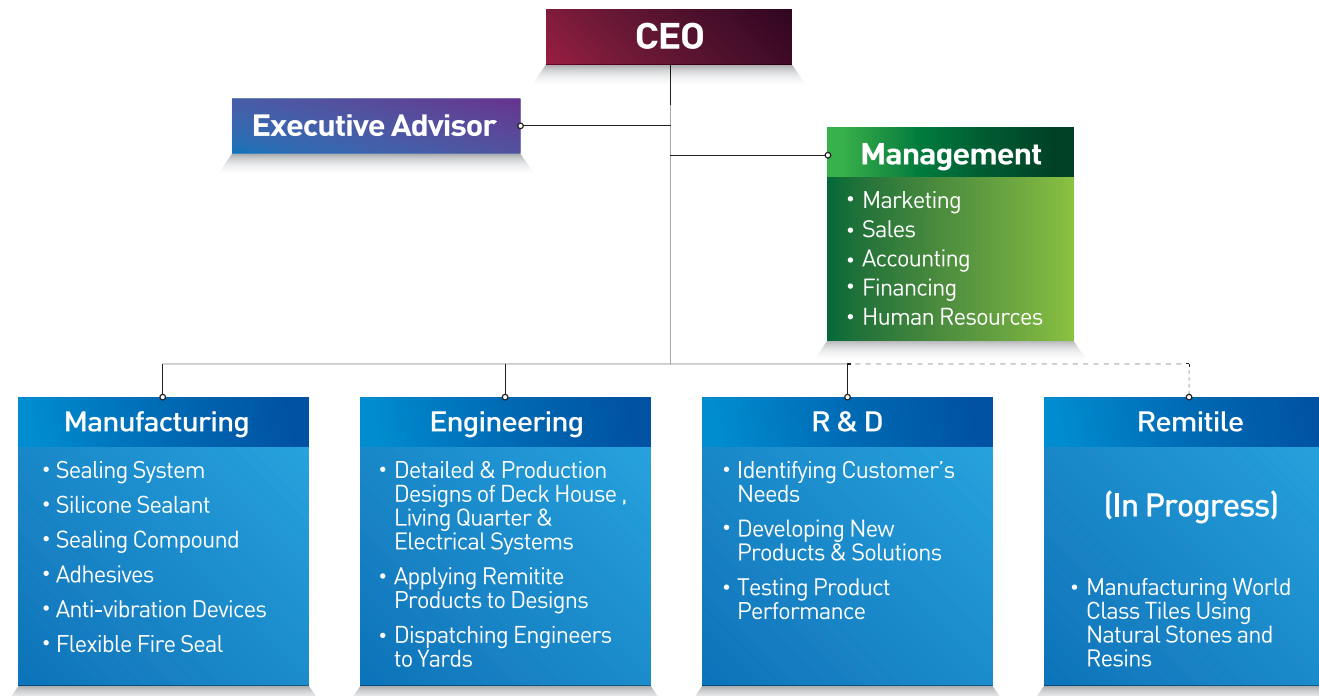
Established: 1975
CEO: Gwangmyeong Park
Initial Capital: 460 Million Won

Production Capacity: 2,000 Tons/year
Annual Sales: 10 Billion Won (Expected in 2013)

Main Products & Solutions

- Flexible fire seal
- Cable & pipe penetration sealing system
- Putty type sealing compound
- Fire-retardant silicone sealants
- Fire-retardant & nontoxic adhesives
- Fire-retardant, anti-noise & anti-vibration devices

Organization



History

- 1975 Daemyung Chemical Engineering was established with a brand of Tokipyu Adhesives
- 1983 The company name was changed to Samsung Chemical Industries with a brand of Remitite Super Adhesives
- 1990 All products of Remitite Super Adhesives acquired Q-mark by Korea Testing & Research Institute
- 1998 The company name was changed to Samsung Remitite Co.
- 1999 Developed Epoxy Adhesive for Ceramic Tiles (GME-90), Acrylic Adhesives for Vinyl Sheets & Carpets (RF-7012)
- 2000 Began to supply RF-7012 and GME-90 to major shipyards such as SHI, HHI, and HMD
- 2003 Fire-retardant Silicone Sealant (Si-701) has passed FTP code based on IMO Regulations, and ISO 9001 certificate was issued by BV
MED certificate was issued by EU for the first time in Korea
- 2004 Developed Fire-retardant Adhesives for Vinyl Sheets and Carpets (RF-7077) and certified by ABS
Si-701 was supplied to SHI, HHI and DSME
- 2006 Developed Fire-proof Cable & Pipe Penetration Sealing System (RS-105 & RRS-15) and certified by ABS, BV, LR, DNV and MED for A-60
- 2008 RS-105 & RRS-15 were certified by BV, DNV and LR for H-120 and supplied to DSME, HHI and STX for semi-drillings
Si-701 was supplied to DSME and HHI for FPSO
- 2009 RS-105 & RRS-15 were certified by GL, NK, BV, DNV, LR for A-60, H-60 and H-120
RF-7077 and Flexible Fire Seal EDT-629 were certified by MED
MED Module D certificate was issued by BV
Si-701, GME-90, RS-105 and RRS-15 were supplied to HHI
- 2010 Approved for Fire-retardant, Anti-noise and Anti-vibration Devices (FS-X1) by MED
Developed Putty-type Sealing Compound (Remiseal FS-7200)
Developed Fire-retardant Sealant (HFS-90) and certified by BV and MED
Changed the company's location to the current site in Gimhae-si, Gyeongsangnam-do
- 2011 Doubled up the company's production capacity by adding another plant
EDT-629 obtained H-120 Class certificate by ABS, BV and DNV
- 2013 EDT-629 obtained J-90 Class certificate by ABS
EDT-629 was tested at the company's explosive test site and endured over 4.5 bar of instantaneous explosive pressure
The company was incorporated in and changed its name to Remitite Co., Ltd.
Future Technology Remitite Engineering Ltd. was established as an affiliated company and located in Jung-gu, Busan

Products & Solutions



Flexible Fire Seal

Remitite EDT-629



Remite EDT-629 is flame-resistant, nonflammable, and made with a mixture of components as a flexible fire material, applying in vessels, offshore and land plants, and other power and generating plants. The flexibility of the seal allows movements between the bulkheads and the deck pipes. This excellent resistance to and performance in and against seawater are especially valuable qualities for use on offshore plants and vessels.

Features

- Approved and certified by ABS for J-90 first post-blast of 4.5 bar
- Approved and certified by ABS, BV, and DNV for H-120
- Resistant to jet-fire, hydrocarbon-fire
- Weather resistant
- Seawater resistant
- Shock resistant
- Blast resistant
- Excellent vibration durability and high tension tolerance
- Abrasion/friction/corrosion resistance in seawater
- Strong resistance to hydrocarbon splash, seawater, processed liquids, UV light, and ozone
- Can be designed and supplied to fit each installation and to satisfy all customer requirements.
- Low maintenance

Applications

- Shipbuildings
- Offshore oil and gas plants
- Onshore plants
- Power facilities

Specifications

• Color	Black
• Capacity	Piece (each)
• Service life	More than 40 years
• Service temp.	-60°C ~ 250°C
• Specific gravity	1.5 ~ 1.7 g/cm ³
• Compressive strength	0.27 ~ 0.64 MPa [25%]
• Elongation	150 ~ 250%
• Hardness	44 ~ 55 shore A
• Elasticity	55%
• Storage temp.	Room temperature
• UV Test	Grade 5 (40 ± 1)°C, 24 hours
• Cold shock	(-55 ± 1)°C

Remitite EDT-629 Fire and Explosion Protection

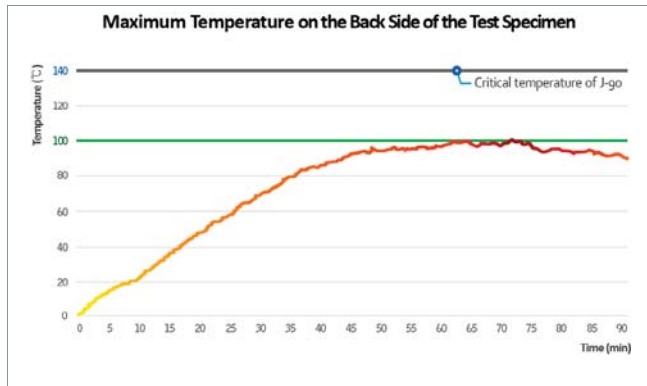
Flexible Fire Seal EDT-629 J-90 has met the strict standards of test ISO 22899-1: 2007 and performed under direct supervision of the inspectors from LR, DNV, and ABS, and verified by the KOMERI on the 28th of June 2013.

Flexible Fire Seal EDT-629 H-120 12 mm in thickness has been tested for its fire resistance following the standards of the IMO: resolution A. 754 (18): 1993. The test was approved by ABS, BV, and DNV, and conducted at the KOMERI in Busan Korea on the 16th of September 2011.

Remitite performed the EDT-629 explosion test at the company's site on the 5th of September 2013. EDT-629 endured over 4.5 bar of instantaneous explosive pressure and verified the best fireproof material protection in the vent of a high pressure explosion and fire.

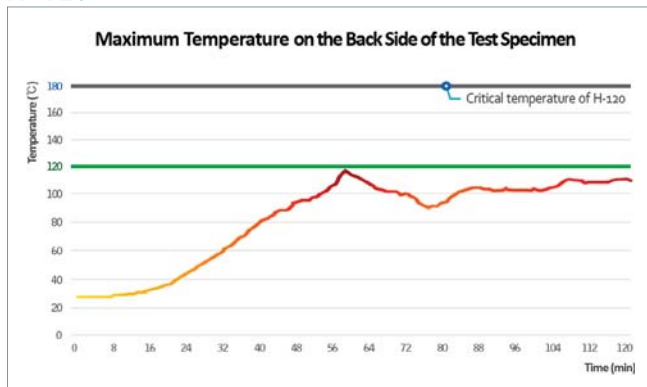


J-90



On cessation of the jet fire after 90 minutes, the maximum temperature rise recorded in the test specimen was confirmed as 101°C.

H-120



The highest temperature on the back of the test specimen during the 120 minute test was 117°C. The highest average temperature on the back of the test specimen was 72°C.

Products

Escape Tunnel Seal



- Allows flexible connections between structures or between metal sections
- Protects sealed door frame connections for fire safe escape route
- Absorbs misalignments, angle deviations, and dynamic loads
- Easily customized to fit unique structures and facilities
- Moisture resistant, pressure tolerant, and vibration absorbing properties within structures

Flexible Seal



- Allows sealed connections between various metal sections
- Can be used to connect modules and protect them against explosion and fire
- Facilitates free movement and tolerates misalignment and angle deviations
- Eliminates pressure spikes, decreases vibration, and absorbs dynamic force loading
- Can easily be installed on a wide range of structures
- Well suited for us in modification of metal work
- Designed for ease of installation

Pipe Penetration Seal



- Diameters of the pipe measuring up to 1,016 mm
- Can be used on the side of the division exposed to blast

Drainway Seal

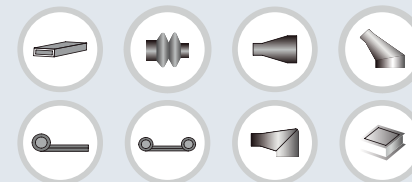


- Connects decks flexibly and absorbs & tolerates working stresses between decks
- Enables natural drainage from decks, semi-permanent, easily installed

■ In addition, EDT-629 can be supplied in forms listed below:

(The following products are available for various fields such as shipbuilding, offshore oil & gas plants, and onshore plants.)

- Various-sized pipe penetration seals
- Linear skirt seals
- Expansion tolerant materials
- HVAC connectors
- Hatch seals
- Tank seals
- Insulation jackets



Cable & Pipe Penetration Sealing System

RS-105 & RRS-15



RS-105 and RRS-15 are superb for sealing cables and pipes in penetration by finishing the outside with Remitite Silicone Sealant 105 after protecting the inside with RRS-15 sleeves. RS-105 and RRS-15 Cable & Pipe Penetration Sealing System is rated in classes A-60 and H-120 and shows excellent fire-resistance, expandability and endothermic performance.

RRS-15 expands up to 20 times its original volume when exposed to temperatures above 180°C. During this expansion process, a porous mass is formed, which has thermal insulation properties. Also, this expansion is not accompanied by the formation of large amounts of fumes. This system is proven as an ultraviolet radiation and ozone interceptor.

Features

- Fire rating: A-60 & H-120 class
- Excellent intumescences and heat absorption
- High elasticity and high tensile strength
- High bonding strength
- Water and gas tightness
- UV light and ozone resistance
- Variety of sizes, which conform to all wiring standards
- No negative changes in repelling cold and heat

Applications

- Fire-retardant sealant for cables
- Fire-retardant sealant for PVC, PP-R and PB pipes
- Water and gasproof sealing for electronic & wiring elements

Specifications

- Color Dark gray
- Total drying time 120 hours
- Surface drying time 1 ~ 2 hours
- Storage life 12 months
- Service life More than 50 years
- Service temp. -55°C ~ 160°C
- Specific gravity 1.26 ± 0.03 g/cm³
- Tensile strength 8.15 kgf/cm² (= 0.80 MPa)
- Tensile failure 80%
- Hardness 40 shore A
- Elasticity 25%
- Storage temp. Room temperature
- UV Test Grade 5 (40 ± 1)°C, 24 hours
- Cold shock (-55 ± 1)°C



Silicone Sealant RS-105

Remittie Silicone Sealant 105 is a fire and water resistant sealant based on a single component compound. It is an adaptable and flexible product that can be used in many different applications, jointing between building elements and materials, especially in shipping and offshore plants.



Remittie Sleeve RRS-15

Remittie Sleeve RRS-15 is a fire-resistant, intumescent, and endothermic special rubber compound, creating value for customers in shipping and offshore plants. The extrudability of this product at high temperature and water-resistance is excellent.



Dimensional Data of RRS-15 (A&H-Type)

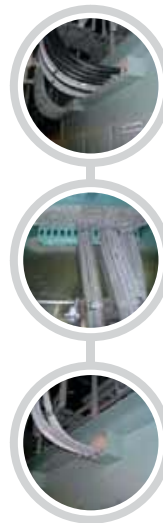
Type	Cable Diameter	Length (mm)		Wall Thickness
		A-Class	H-Class	
12/6	5-7	140	210	3
14/8	7-9			3
16/10	9-11			3
18/12	11-13			3
20/14	13-15			3
22/16	15-17			3
27/19	17-21			4
31/23	21-25			4
35/27	25-29			4
39/31	29-33			4
46/36	33-39			5
52/42	39-45			5
58/48	45-51			5
64/54	51-57			5
70/60	57-63			5
M18/12	Multi-Type			3
M27/19	Multi-Type	3		

Remittie Sleeve 15 is a special rubber compound, which is fire-resistant, intumescent and endothermic. When Remittie Sleeve RRS-15 is exposed to temperature over 180°C, it expands up to 20 times its original volume. Carbonized mass is produced in the process, which creates excellent thermal insulation ability. Remittie Sleeve 18/12 and 27/19 can be supplied in nonsplit multi-units of 10 pieces bonded together.

Putty Type Sealing Compound

Remiseal FS-7200

Remiseal FS-7200 is a fire-resistant inorganic sealant for cables and pipe penetrations in offshore plants, shipbuilding, nuclear power plants, and similar projects. It is a lightweight, eco-friendly, and durable sealing compound with good workability and easy maintenance.



Features

- Fire rating: A-60 class
- Eco-friendly
- Easy installation and replacement
- Excellent performance, durability
- Ultralight weight

Applications

- Ships
- Marine plants
- Nuclear power facilities
- Specialized building's cables
- Pipe penetration sealing
- Repairing electronic & wiring elements

Specifications

- Color Light gray
- Surface drying time 1 ~ 2 hours
- Capacity 10 kg (500 g x 20 Pack/ Box)
- Storage life 6 months
- IP Class IP44
- Service temp. -30°C ~ 450°C
- Specific gravity 1.1 g/cm³
- Hardness 90 shore A
- Storage temp. Room temperature
- pH 12

Non-combustible Silicone Sealant

HFS-90

Non combustible Silicone Sealant HFS-90 is a highly fire resistant and nonflammable single component compound. This sealant is halogen free, nontoxic and almost smokeless. This product has a remarkably high melting point and excellent adhesive properties.



Features

- Strong adhesion
- Halogen free
- Nontoxic and almost smokeless
- High temperature service compound
- Highest level of fire-resistance

Applications

- Sealing high temperature elements

Specifications

- Color Dark gray
- Surface drying time 2 ~ 3 hours
- Capacity Cartridge (310 ml)
- Storage life 12 months
- Service life More than 50 years
- Service temp. -40°C ~ 400°C
- Specific gravity 1.7 ~ 2.1 g/cm³
- Hardness 40 shore A
- Storage temp. Room temperature
- Cold shock [-55 ± 1]°C
- Main ingr. Silicone
- Solid Over 98%



Fire-retardant Silicone Sealant

Si-701

Fire-retardant Silicone Sealant Si-701 is a neutral, eco-friendly, anti-bacterial, noncorrosive, and vulcanizing silicone sealant. Si-701 contains no solvent or acetic acid; it is odorless and harmless. Custom-made batches are also available in a variety of colors.



Applications

- Ships
- General industry
- Cars
- Advanced construction

Features

- Strong adhesion
- Fire-retardant
- Nontoxic and almost smokeless
- Excellent elasticity and high tensile strength
- Anti-bacterial
- Water resistant
- Electric transmission resistant
- UV light and ozone resistant

Specifications

- Color Matched at customer's request
- Surface drying time 2 ~ 3 hours
- Capacity Cartridge (310 ml)
- Storage life 12 months
- Service life More than 50 years
- Service temp. -40°C ~ 250°C
- Specific gravity 1.05 g/cm³ (1.05 g/ml)
- Tensile strength 21.4 kgf/cm² (2.1 N/mm²)
- Adhesive strength 588 N (20 mm), 755 N (25 mm),
1372 N (40 mm), 1488 N (45 mm), 1646 N (50 mm)
- Tensile failure 410%
- Hardness 35 shore A (= 22°)
- Shrinkage 3%
- Viscosity Nonslump paste
- Elasticity 0.8 N/mm² (The modulus of elasticity)
- Storage temp. Room temperature
- UV Test Grade 5 (40 ± 1)°C, 24 hours
- pH Neutral
- Main ingr. Silicone
- Solid Over 98%

Vinyl Sheet & Carpet Adhesive

RF-7077

Remitite RF-7077 is a strong adhesive product used for initial adhesion of carpets and soft PVC pipes. It is water-soluble, non-combustible and nontoxic. Also, adhesion and bonding strength of this product remains consistent and also increases over a period of time.



Features

- Fire-resistant, nontoxic and almost smokeless
- High tensile strength
- Strong adhesion to vinyl sheets and carpets
- Excellent usability

Applications

- Carpets
- Soft PVC

Specifications

- Color Yellow (After drying: light brown)
- Capacity 8 kg plastic container
- Storage life 6 months
- Service temp. -20°C ~ 60°C
- Specific gravity 1.12 g/cm³
- Viscosity 100,000 ~ 110,000 cps (20°C)
- Storage temp. Room temperature
- pH 9.8
- Main ingr. Synthetic resins modified acrylic copolymer
- Solid 69 ~ 71%



Fire-retardant & Anti-noise, Anti-vibration Devices

FS-X1



Remitite FS-X1 is a remarkable anti-vibration and fire-resistant device. It performs well for protecting metallic components from vibration and in fire-resistant and fire prevention applications. FS-X1 is available in a range of forms, each having passed durability tests as well as the stringent regulations of the International Maritime Organization.

Features

- Fire-resistant, nontoxic and almost smokeless
- High tensile strength
- High durability
- Standard or matched at customer's request (Anti-vibration mount, support, mat)



Specifications

- Color Dark grey
- Service life More than 40 years
- Service temp. -60°C ~ 250°C
- Specific gravity 1.6 ~ 1.8 g/cm³
- Compressive strength 0.27 ~ 0.64 MPa (25%)
- Hardness 25 ~ 70 shore A
- Storage temp. Room temperature
- Cold shock (-55 ± 1)°C

Products

Anti-vibration Hanger Hooks

Protects metallic components from vibration with rubber-coated hanger hooks on contact points between components.



Applications

- Ceiling and wall panels of ships or marine structures
- Hooks for fixing ceiling panel channels
- U-bolts for fixing pipes
- Clamps

Anti-vibration Pads

Available in many sizes and different thickness for insulation against vibration and shock. These pads are also seawater resistant.



Applications

- Foundation and profiles of machinery
- Wrapping cables
- Sealing gaps

Fire-retardant Back Boxes

Because of its fire-resistant and fire preventive properties, Fire-retardant Back Box is highly effective in protecting electrical switches and equipment from fire. It is also helpful in preventing fire from spreading to other areas through the holes.



Applications

- Switches
- Receptacles
- Electric equipment
- R/TV Outlets

Anti-vibration Mountings for Lighting & Equipment

Anti-vibration supports are available in many different sizes to protect the foundations of driving machines, electrical equipment, and switchboards and lamps mounted aboard ship using certified resilient rubber to minimize vibration.



Applications

- Foundations of fans
- Foundations of air handling units
- Foundations of auxiliary machine units
- Foundations of electrical consoles
- Foundations of electrical switchboards
- Foundations of supports

O-ring for Plank Seal

O-rings are fire-resistant and are very useful for plank sealing for offshore helideck. They are used to absorb vibrations and shocks.



Applications

- Plank for helideck

Anti-vibration Mountings for Wall & Ceiling Panels

The anti-vibration support for ceilings and wall panels of ships or marine structure, which minimizes vibration in combinations with certified fire-retardant rubber.



Applications

- Ceiling and wall panels of ships or marine structures

Ceramic Tile Adhesive

GME-90

Remitite GME-90 contains epoxy resin and amine in an organic compound and adheres to steel, aluminum, ceramic tiles, fireproof materials and wood. This product has excellent tensile strength, chemical resistance, and heat-resistance with no heat distortion.

GME-90 is a superb product for substances which cause problems including ceramic tiles, marbles, aluminum, metal and wood. The product can also be combined with water and white sand for special uses. Even after long periods, there is no odor of decomposition from GME-90.



Features

- Strong adhesion
- Fire-resistant, nontoxic and almost smokeless
- High tensile strength
- Chemical, weather and water resistant
- High durability
- Shock resistant
- No heat distortion
- Does not drip or run down metal walls during application

Applications

- Iron
- Ceramic tiles
- Wood
- Aluminium
- Fireproof material

Specifications

- Color Ivory, white
- Drying time 150 minutes (20°C, 200 g)
- Capacity 5 kg plastic container
- Storage life 12 months
- Pot life 120 minutes (20°C)
- Service temp. -20°C ~ 80°C
- Specific gravity 1.13 g/cm³
- Tensile strength 390 kgf/cm² (390 kg/cm²)
- Compressive strength 580 kg/cm²
- Adhesive strength 105 kg/cm²
- Shrinkage 0.50%
- Viscosity Epoxy resin : 200,000 ~ 250,000 cps,
specialty organic chemical : 250,000 ~ 300,000 cps (20°C)
- Storage temp. Room temperature
- Main ingr. Epoxy resin, specialty organic chemical
- Solid Over 95%



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