



国家双示范企业科技成果

SCI-TECH ACHIEVEMENTS OF NATIONAL DOUBLE DEMONSTRATION ENTERPRISE

◎ NATIONAL DEMONSTRATION ENTERPRISE FOR TECHNOLOGICAL INNOVATION

国家技术创新示范企业

GONG XIN BU KE. [2019] NO. 204

GONG XIN BU GONG XIN TING KE HAN. [2022] NO. 304

工信部科 [2019] 204号

工信部 工信部科 [2022] 304号

◎ NATIONAL INTELLECTUAL PROPERTY DEMONSTRATION ENTERPRISE

国家知识产权示范企业

GUO ZHI FA GUAN HAN ZI. [2018] NO. 158

GUO ZHI FA YUN HAN ZI. [2022] NO. 160

国知发管函字 [2018] 158号

国知发运函字 [2022] 160号



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XINIUPI SF-CPS SELF-FUSION TYPE SPECIAL MULTIFUNCTIONAL PROTECTIVE MEMBRANE

西牛皮 SF-CPS 自融合型特种功能防护膜

SPECIAL FOR METAL ROOF
PROTECTION & LEAKAGE PREVENTION

金属屋面防漏防护

MANUFACTURER: XINIUPI WATERPROOFING TECHNOLOGY CO., LTD.
制造商: 西牛皮防水科技有限公司

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GONG XIN BU GONG XIN TING KE HAN. [2022] NO. 304

工信部 工信厅科函 [2022] 304号

国家技术创新示范企业

工业和信息化部

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2022.10-2025.09

PRODUCT & TECHNOLOGY HAS WON NATIONAL DOUBLE AWARD

产品技术荣获国家双奖

◎ NATIONAL KEY NEW PRODUCT

国家重点新产品

GUO KE FA JI. [2014] NO. 303

国科发计 [2014] 303号

**国家重点新产品
证书**

项目名称: CPS反应粘结型湿铺(I型)防水卷材 项目编号: 2014GR609014

承担单位: 广西金雨伞防水装饰有限公司

发证时间: 二〇一四年十月

批准机关: 科学技术部

有效期: 三年



◎ CHINA PATENT EXCELLENCE AWARD

中国专利优秀奖

GUO ZHI FA GUAN ZI. [2014] NO. 63

国知发管字 [2014] 63号



中国专利优秀奖

名称: 与碱土进行化学交联和物理交联的树脂材料

专利号: ZL200910114456.X

发明人: 卢桂才 伍盛江 袁方伍 郭文强

中知局

中华人民共和国国家知识产权局

中华人民共和国国家知识产权局局长

北京 2014 年 11 月

XINIUPI SF-CPS SELF-FUSION TYPE SPECIAL MULTIFUNCTIONAL PROTECTIVE MEMBRANE

西牛皮 SF-CPS 自融合型特种功能防护膜

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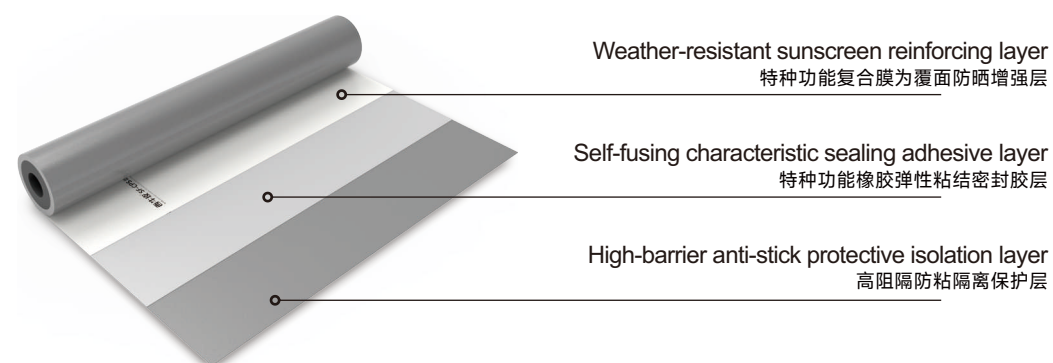
金属屋面防漏防护



01 Product Introduction 产品简介

The Xiniupi Self-Fusion Type Special Multi-functional Protective membrane is produced by using an ultra-weather-resistant special function fluorocarbon composite film as the surface sunscreen reinforcing layer, grading and compounding various special function rubbers to form a self-fusing characteristic sealing adhesive layer, and using a high-barrier anti-adhesion release film as the isolation layer.

西牛皮SF-CPS自融合型特种功能防护膜是以本体耐紫外线的特种功能复合膜为覆面防晒增强层，复合具有自融合特性的特种功能橡胶弹性粘结密封胶层及高阻隔防粘隔离保护膜制成。



Schematic diagram of the structure of the Xiniupi Self-Fusion Type Special Multi-functional Protective membrane
SF-CPS自融合型特种功能防护膜结构示意图

This product can be sealed and bonded to the metal surface of buildings and structures and integrated as one. It has the characteristics of blocking the penetration of water, water vapor, oxygen, acids, alkalis, salts and other corrosive factors. It can also reflect solar heat to a certain extent and reduce the noise caused by wind and rain. Preventing building leakage and rusting of metal surfaces. It can also reflect solar heat to a certain extent and reduce the noise caused by wind and rain. It is an exposed functional protective membrane that protects metal buildings from leakage and rust during long-term exposure.

This product is paved and constructed by using the fusion dry bonding method. There is no need for torching or heating, and no harmful or irritating gas emissions. It is safe and environmentally friendly.

本品可与建构物金属表面密封粘结、融合为一体，具有阻隔水、水汽及氧、酸、碱、盐等侵蚀性介质透过的特性，防止建筑物渗漏水 and 金属表面锈蚀，并能一定程度反射太阳光热和降低风、雨造成的噪声，是保护金属建筑长期暴露应用不漏不锈的外露型功能防护膜材。

本品采用融合干粘法工艺铺贴施工，无需动火和加热、无有害或刺激性气体排放，安全、环保。



02 / Product Features

产品特点

Prevention 防

Leakage-proof
and Antitrust

防漏 防锈

Water leakage prevention: The PVDF composite functional polymer film of the product is dense and weather-resistant, which can block water and water vapor from going through for a long time to ensure that the leakage won't occur. The composite elastic bond sealing layer of the product is the modified special-treated butyl rubber sealant, which is made of butyl rubber as the main functional material, after directional modification, and functional compatible materials through kneading and shearing to achieve nanoscale or molecular level blending. The modified butyl rubber sealant has the advantages of large bonding force, irreversible bonding, and strong comprehensive properties such as multi-interface bonding. The bonding surface can prevent water and high pressure water vapor from passing through, which is a reliable guarantee of leak-free for the buildings.

Corrosion prevention: This product has the characteristic of preventing water, water vapor and oxygen, acid, alkali, salt and other substances from passing through, which can ensure buildings are free from various erosion and have durable usage lives.



防漏：产品的耐候性的防晒增强层致密、耐候，可长期阻隔水、水汽透过，确保建筑不渗漏。

产品的自融合特性的密封粘结胶层是以多种特种功能橡胶为主要功能原料、经定向修饰改性后，与功能配伍材料通过捏合、剪切实现纳米级或分子级共混制成。自融合特性密封粘结胶具有粘接力大、粘结不可逆、多界面能粘结等综合性能均强的优势。粘结结合面能阻止水、高压水汽透过，是建筑无渗漏的可靠保障。

防锈：本品具有阻止水、水汽及氧、酸、碱、盐等物质透过的特性，可保证建筑免受各种侵蚀，应用耐久。

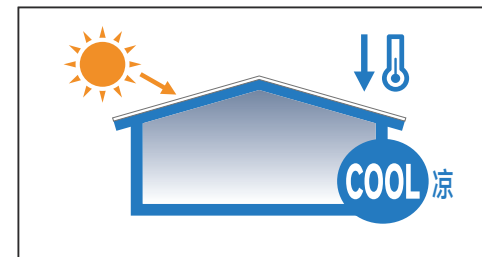
Reduction 降

Cooling and
Noise Reduction

降温 降噪

Cooling: the product has an excellent function of reflecting sunlight and heat, which can reduce indoor temperature, lower carbon emission and save energy.

Noise reduction: the product can effectively block the transmission of sound waves, and play a role in noise reduction and sound insulation.



降温：产品具有优异的反射太阳光与热的功能，可降低屋面温度，低碳节能。

降噪：产品可有效阻隔声波传导，起到降噪隔声功效。

Resistance 耐

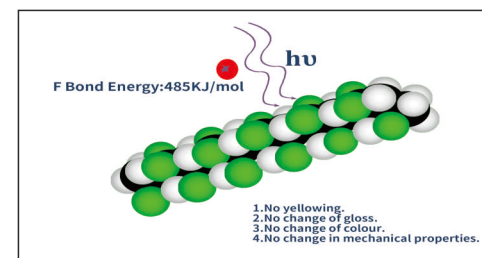
Weatherproof and
Strong Endurance

耐候 耐久

Aging resistance: the product's fluorocarbon film, modified butyl adhesive combination structure own excellent chemical properties. It can stably perform well without change in a long time in ultraviolet light, oxygen, water, water vapor and acid, alkali, salt and other environments.

Fatigue resistance: the coating material layer of this product and the elastic adhesive sealing layer form binary creep crack resistance structure, which is crack-resistant to fatigue and can adapt to the application environment of frequent deformation and vibration of the base surface.

Wind resistance: this product can be fused and bonded with the basal surface as a whole. Even strong wind pressure can not make it unbonded or delaminated.



耐老化：产品由氟碳复合膜、自融合特性密封粘结胶组合结构，化学惰性优异，长期在紫外光、氧、水、水汽及酸、碱、盐等环境中工作，性能稳定。

耐疲劳：本品的覆面材料层与弹性粘结密封胶层形成二元蠕变抗裂结构，耐疲劳开裂，适应基面频繁变形、震动的应用环境。

耐风揭：本品可与基面融合粘结，形成一体，强风压作用不脱粘、不分层。

03 / Scope of Application
适用范围

It is mainly used for the protection of building metal surfaces that require leak prevention and rust prevention, such as building metal roofs and metal exterior wall surfaces.

It can also be used for the rust prevention protection of various metal surfaces such as metal containers, pipes, and equipment; as well as building protection that requires reflecting solar heat and reducing noise.

主要用于有防渗漏、防锈蚀需要的建筑金属表面防护，如建筑金属屋面、金属外墙表面。

也可用作各类金属容器、管道、设备等金属表面的防锈蚀保护；以及有反射太阳光热、隔声降噪要求的建筑防护。



04 / Specifications and Product Technical Indicators
规格型号及产品技术指标

Specifications and Models 规格型号

- The width is 1000mm. 宽度为1000mm。
- The thickness is 0.4mm, 0.6mm. 厚度为0.4mm、0.6mm。
- The area of a single roll is 20m². 单卷面积20m²。

Main Physical Performance Indicators 主要物理性能指标

The implementation standard of Xiniupi Self-Fusion Type Special Multi-functional Protective membrane is:

- 0.4mm Thickness: "Protective membrane for Building Metal Surfaces"(T/CBMF 266-2024).
- 0.6mm Thickness: "Protective membrane for Building Metal Surfaces"(Q/XNP 34-2024).

SF-CPS自融合型特种功能防护膜的执行标准为：

- 0.4mm厚度：T/CBMF 266-2024《建筑金属表面防护膜》。
- 0.6mm厚度：Q/XNP 34-2024《建筑金属表面防护膜》。

Number 序号	Performance classification 性能分类	Item 项目		Technical specifications 技术指标		
				A (Type I) I型	B (Type II) II型	
1	基本性能 Basic performance	Tensile property 拉伸性能	Tension/(N/50mm) 拉力/ (N/50mm)		≥450	≥180
			Elongation at maximum tension /% 最大拉力时伸长率/%		≥50	≥180
			Elongation phenomenon 拉伸时现象		There is no separation between the flexible adhesive layer and the covering material 粘结胶层与覆面材料无分离	
2			Tearing force /N 撕裂力/N		≥20	≥25
3		Peel strength (/N/mm) 剥离强度/ (N/mm)	Protective membrane and protective mem- brane(overlap edge) 防护膜与防 护膜（搭接边）	untreated 无处理	≥1.0	≥1.0
				Immersion treatment 浸水处理		
				Heat treatment 热处理		
			Protective membrane and metal 防护膜与 金属	untreated 无处理	≥1.0	
				Immersion treatment 浸水处理		
				Heat treatment 热处理		
4		基本性能 Basic performance	Oiliness/number of sheets 渗油性/张数		≤1	
Holding viscosity /min 持粘性/min			≥45			
Heat resistance/(100°C, 2 h) 耐热性 (100°C, 2 h)			No flowing, dripping, slip ≤2 mm 无流淌、滴落，滑移≤2 mm			
Water resistance (23°C×14d) 耐水性(23°C×14d)	Appearance 外观		No cracks, no delamination, no blistering and no breakage phenomenon 无裂纹、无分层、无起泡和破碎现象			
	Water absorption rate/% 吸水率/%		≤1			
Hot water resistance (98°C×24h) 耐热水性 (98°C×24h)	Tension/ (N/50mm) 拉力/ (N/50mm)		≥450	≥180		
	Elongation at maximum tension/% 最大拉力时伸长率/%		≥50	≥180		
9			Low temperature flexibility (-40 °C) 低温柔性 (-40 °C)		no cracks 无裂纹	
10		Size change rate /% 尺寸变化率/%		±1.0	±2.0	
11		Thermal stability 热稳定性		No bulge, flow, the maximum curled edge of the covering material does not exceed 1/4 of the side length 无起鼓、流淌，覆面材料边缘卷曲最大不超过边长1/4		
12		Stress relaxation/% 应力松弛/%		≤35		
13	Barrier performance 阻隔性能	Oxygen transmittance (m ² ·24h·0.1MPa) 氧气透过率/[cm ³ / (m ² ·24h·0.1MPa)]		≤50	≤150	
Water vapor permeability (/g/m2·24h) [g/ (m ² ·24h)]		Specification<1.2mm 厚度规格<1.2mm	≤20			
		Specification≥1.2mm 厚度规格≥1.2mm	≤6			
15			Water impermeability (0.3 MPa, 120 min) 不透水性 (0.3 MPa, 120 min)		impermeable 不透水	
16	Aging resistance 耐老化性能	Heat aging 热老化 (80°C, 14d) (80°C, 14d)	Tensile retention rate/% 拉力保持率/%	≥90		
Elongation at maximum tension/% 最大拉力伸长率保持率/%			≥80			
17		Accelerated Weathering ^a 人工气候加速老化 ^a	Low temperature flexibility (-38°C) 低温柔性 (-38°C)	no cracks 无裂纹		
appearance 外观	No bubbling, no cracks, no delamination, no bonding, no holes in the coating material 无起泡，无裂纹，无分层，覆面材料无粘结，无孔洞					
18	Corrosion resistance 防腐性能	Salt spray resistance 耐盐雾性		≤1Grade ≤1级		
Chemical resistant liquid (Salt tolerance,Alkali resisting,acid-resisting) 耐化学液体 (耐酸、耐碱、耐盐)		tension/ (N/50mm) 拉力/ (N/50mm)	≥450	≥180		
		Elongation at maximum tension/% 最大拉力时伸长率/%	≥50	≥180		
19		appearance 外观	No bubbling, no cracks, no delamination, no bonding, no holes in the coating material 无起泡，无裂纹，无分层，覆面材料无粘结，无孔洞			

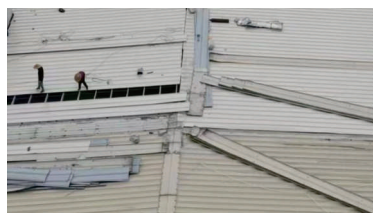
^a When the product is exposed for use, it should be tested for artificial climate accelerated aging, and the minimum aging time should not be less than 6000 hours.

^a 产品外露使用时，应测试人工气候加速老化，老化时间不应小于6000h。

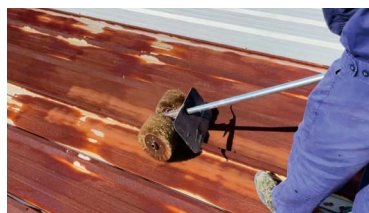
05 Application Method 施工方法

1 Basal surface treatment 基面处理

- | | |
|---|--|
| <ol style="list-style-type: none"> 1. Replace or repair rust-perforated/damaged substrates. 2. Reinforce/replace loose nail holes with specialized tools. Straighten deformed metal sheets with dedicated tools. Secure lifted seams (sheet-to-sheet/ridge/flashing joints) with rivets. 3. Derust or apply specialized primer on rusted areas. 4. Clear clogged gutters/drip edges immediately; replace severely damaged parts. 5. Dry, free of oil, dust, and loose particles. | <ol style="list-style-type: none"> 1. 当基面出现锈蚀穿孔或其他损坏时，需进行更换或维修。 2. 松动的钉眼用专用工具进行加固或更换；金属板变形时，采用专用工具进行矫正；金属板与金属板、屋脊、泛水板等搭接处出现翘口时，应采用铆钉加固。 3. 基面生锈区域进行除锈或喷涂专用基层处理剂处理。 4. 天沟、檐沟等出现堵塞时应及时清理淤积物，确保排水通畅，如出现损坏严重时，应进行更换。 5. 合格的基面应干燥、无油渍、无粉尘及其他松动物。 |
|---|--|



Tile Replacement
更换瓦片



Rust Removal by Grinding
打磨除锈



Spraying Special Purpose Interface Treating Agent matched with XINIUPI Protective Membrane
喷涂西牛皮防护膜专用基层处理剂



Clean Gutters
清理天沟/檐沟



Clean Ground
清理基面

2 Pre-strengthening preparation 预加强处理

Where required, conduct pre-reinforcement treatment on detail components (e.g. nail holes, metal sheet laps) using compatible sealing tapes.

必要时，对钉眼、金属板搭接缝等细部构造采用配套密封胶带进行预加强处理。



Nail Hole Reinforcement
钉眼加强



Lap Joint Reinforcement
搭接缝加强

3 Large-scale installation 大面铺贴

- | | |
|--|--|
| <ol style="list-style-type: none"> 1. The protective membrane shall be installed in the order from low to high and from far to near. For multi-span or high-low roof construction, proceed from high to low and from far to near. 2. Lap direction shall follow water flow or prevailing wind direction; reverse lapping is prohibited. Minimum lap width $\geq 80\text{mm}$ when used as independent waterproofing layer. Minimum lap width $\geq 60\text{mm}$ when used as protective layer 3. The protective membrane shall fully adhere to the substrate during construction. | <ol style="list-style-type: none"> 1. 防护膜应遵循先低后高、先远后近的顺序进行施工；当在多跨或高低跨屋面施工时，应遵循先高后低、先远后近的顺序进行。 2. 防护膜搭接方向应根据顺流水或主导风向，不应倒槎搭接。防护膜作为一道独立防水层构造验收使用时，其最小搭接宽度不宜小于80mm；当作为一道防护层验收使用时，其最小搭接宽度不宜小于60mm。 3. 施工时，防护膜应与基面贴合。 |
|--|--|



Large-scale pasting/installation
大面铺贴



Tight Conformity
紧密伏贴

4 Post-application reinforcement treatment 后加强处理

After large-area membrane installation, seal and reinforce lap joints/terminations at irregular structural connections with compatible sealant.

大面积防护膜施工完成后，对异型结构连接部位的搭接缝、收头等部位采用配套密封胶进行封缝加强处理。



5 After-installation protection 成品保护

When the installation is completed, if heavy objects are piled-up on the top or other operations are carried out, protective measures should be taken to avoid damage to the protective layer.

防护膜施工完成后，应及时做好成品保护，出现交叉工序破坏时，应及时进行修补处理。

06/ Precautions 注意事项

1. The construction environmental temperature for the protective membrane should not be lower than 5°C. When the construction temperature is lower than 5°C, heating and adhesion-promoting measures should be adopted.
2. Before paving the protective membrane, it shall be ensured that the base surface is clean, dry, free of oil stains, dust, and other loose substances.
3. Anti-slip flat-soled shoes shall be worn throughout the construction process, and spiked shoes are strictly prohibited.
1. 防护膜施工环境温度不宜低于5°C，当施工温度低于5°C，宜采取加温助粘措施。
2. 防护膜铺贴前，应确保基面干净、干燥、无油渍、无粉尘及其他松动物。
3. 施工全过程中应穿防滑平底鞋，严禁穿钉鞋。

4. It is strictly forbidden to place sharp objects directly on the completed protective layer without protective measures, and heavy objects or transportation equipment shall not be transported on the unprotected protective layer.
5. In case of damage, timely repair shall be carried out.
6. Shelf life: Under normal transportation and storage conditions, when the product is unopened, the shelf life of this product is 12 months.

4. 严禁在无保护措施的情况下，将尖锐物体直接放置在已完工的防护层上，不得在未进行保护的防护层上托运重型器物 and 运输设备。
5. 如有破损应及时修补。
6. 保质期:在正常的运输与贮存条件下，产品未开封时，本品的保质期为12个月

07/ Transportation and Storage 运输与存储

1. Different types and specifications of membranes shall be stacked separately and shall not be mixed.
2. The product should be stored in a ventilated place and stacked in a single layer.
3. The product shall be protected from sun and rain, with attention to ventilation, and the storage temperature shall be -5°C ~ 45°C.
4. Prevent tilting or side pressure during storage or transportation, and cover with tarpaulin if necessary.
1. 不同类型、规格的产品应分别堆放，不应混杂。
2. 产品立放贮存，单层堆放。
3. 产品避免日晒雨淋，注意通风，贮存温度宜为 - 5°C ~ 45°C。
4. 贮存或运输时防止倾斜或侧压，必要时加盖苫布。



JOINT SEALING TAPE

MATCHED WITH XINIUPI PROTECTIVE MEMBRANE

西牛皮自融合型特种功能防护膜配套节点密封胶带

Product Introduction 产品简介

1. This product is composed of a weather-resistant polymer film covering material, a bonding adhesive layer, and an isolation protective layer. It is a tape that can be tightly bonded to the building metal base and the self-fusing special function protective membrane, and is an application supporting material for the Xiniupi Self-Fusion Type Special Multi-functional Protective membrane.
 2. The bonding adhesive layer of this product is formed by a specific production process after using special functional rubber material as the functional material, through kneading, shearing, and achieving nano-scale or molecular-level fusion with functional compatible materials. It is homogeneous and compatible with the bonding adhesive material of the Xiniupi Self-Fusion Type Special Multi-functional Protective membrane.
 3. This product has various protective application functions such as strong sealing and bonding force, irreversible bonding, multi-interface bonding ability, convenient construction, and excellent aging resistance. It plays the role of sealing and anti-seepage, and rust prevention and corrosion protection on the surface of the adhered object.
 4. It is mainly used for the strengthened sealing treatment of detailed node parts such as the lap joints of metal tiles, the nail holes of metal tiles, the lap joints and closures of functional films for protecting the building metal surface, and can also be used for the rust prevention and leakage prevention treatment of partial applications of metal buildings.
1. 本品由耐候高分子薄膜覆面材料、粘结胶层、隔离保护层构成，可与建筑金属基层、自融合型特种功能防护膜紧密粘结的胶带，是西牛皮自融合型特种功能防护膜的应用配套材料。
 2. 本品的粘结胶层以丁基胶高分子材料为功能材料，通过捏合、剪切，并与功能配伍材料实现纳米级或分子级融合后，经特定生产工艺制备而成，与西牛皮牌自融合型特种功能防护膜的粘结胶材料同质相容。
 3. 本品具有密封粘结力强、粘结不可逆、多界面能粘结、施工方便、耐老化性能优异等多种防护应用功能，对被粘物表面起密封防渗漏、防锈蚀保护作用等。
 4. 主要用于金属瓦搭接缝、金属瓦钉眼、建筑金属表面防护用功能膜的搭接缝及收口等细部节点部位的加强密封处理，也可用于金属建筑局部应用的防锈蚀、防渗漏处理。

Product Features 产品特点

1. Excellent creep and crack resistance performance, and can adapt to a certain degree of deformation of the base surface.
 2. Strong chemical inertness, resistant to long-term ultraviolet irradiation, and erosion by corrosive media such as acids, alkalis, and salts.
 3. It can be integrated and bonded with the base surface, with long-lasting sealing effect and is not prone to the phenomena of peeling and delamination.
1. 蠕变抗裂性能优异，可适应界面一定程度形变。
 2. 化学惰性强，耐紫外线长期照射，耐酸、碱、盐等腐蚀介质侵蚀。
 3. 可与基面融合粘结，密封持久，不易出现剥离分层现象。

Scope of Application 适用范围

1. Strengthened sealing treatment of detailed node parts such as the lap joints of metal tiles, the nail holes of metal tiles, the lap joints and closures of functional membranes for protecting the building metal surface.
 2. Rust prevention and leakage prevention treatment of partial applications of metal buildings.
1. 金属瓦搭接缝、金属瓦钉眼、建筑金属表面防护用功能膜的搭接缝及收口等细部节点部位的加强密封处理。
 2. 金属建筑局部应用的防锈蚀、防渗漏处理。

Application Method 施工方法

1. Clean the base surface. It is required to be free of oil stains, visible water, debris, dust, loose objects and rust.
 2. Peel off the release film on the surface of this product and paste it on the base surface to make it closely adhere to the surface of the adhered object.
 3. After the construction is completed, the next process can be carried out. If there is any damage, it should be repaired in time.
1. 基面清理，要求无油污、无明水，无杂物、无粉尘、无松动锈蚀物。
 2. 撕掉本品表面的隔离保护膜，粘贴于基面表面，使之与被粘物表面紧密粘贴。
 3. 施工完成后，可进行下道工序施工，若有破损应及时修补。

Precautions 注意事项

1. The base surface should be kept clean, dry and free of oil stains.
 2. Construction is suitable in an ambient temperature of (5 to 45)°C (heating can be used to assist adhesion in a low-temperature environment).
 3. Select products of different models and specifications according to the actual engineering needs.
 4. When used in combination with materials containing organic solvents, ensure that the organic solvent components have volatilized before applying this product to avoid swelling and damage.
1. 基层表面应保持干净，干燥、无油污。
 2. 宜在(5~45)°C的环境温度下施工(低温环境施工可加温助粘)。
 3. 根据实际工程需要选用不同型号、规格尺寸的产品。
 4. 与含有机溶剂的材料叠合使用时，应确保有机溶剂成分挥发后再施工本品，避免产生溶胀破坏。

Packaging, Storage and Transportation 包装、贮存与运输

1. During transportation and storage, products of different types and specifications should be stacked separately and not mixed; avoid impact, extrusion, sun exposure and rain, and the storage temperature should be (-5 to 45)°C.
 2. During product transportation, prevent tilting or side pressure, and cover with tarpaulin if necessary.
1. 运输与贮存时，不同类型、规格的产品应分别堆放，不应混杂；包装物避免挤压、雨淋；贮存温度宜为(-5~45)°C。
 2. 产品运输时，防止倾斜或侧压，必要时加盖苫布。

Shelf Life 保质期

Under normal transportation and storage conditions, when the product is unopened, the shelf life of this product is 12 months.

在正常的运输与贮存条件下，产品未开封时，自生产日期起12个月。



JOINT SEALANT

MATCHED WITH XINIUPI PROTECTIVE MEMBRANE

西牛皮自融合型特种功能防护膜配套节点密封胶

Product Introduction 产品简介

1. This product is an environmentally friendly, solvent-free, one-component neutral protective sealant. It is a professional matching node sealing material for the outdoor exposed environment application of Xiniupi Self-Fusion Type Special Multi-functional Protective membrane.
 2. This product has excellent weather resistance, sealing performance, and low-temperature flexibility. It has good tracking performance for the displacement of the base layer caused by thermal expansion and contraction. It can be firmly and durably sealed and bonded to the surfaces of various building materials such as Xiniupi Self-Fusion Type Special Multi-functional Protective membrane, metal, glass, and plastic. It can also be applied to the caulking, sealing, and leak-proof treatment of various types of doors, windows, interior and exterior walls, and non-structural glass curtain walls.
1. 本品是一款环保型无溶剂的单组份中性防护密封胶，是西牛皮自融合型特种功能防护膜户外暴露环境应用的专业配套节点密封材料。
 2. 本品具有优异的耐候性、密封性、低温柔韧性，对基层因热胀冷缩产生的位移有较好的追随性；与西牛皮自融合型特种功能防护膜、金属、玻璃、塑料等多种建筑材料表面均可牢固持久密封粘结；也可适用于各类门、窗内外墙、非结构性玻璃幕墙的填缝、密封、防漏处理。

Product Features 产品特点

1. Excellent elasticity, UV resistance, and weather aging resistance.
 2. Excellent adhesion. No primer is needed. It can be firmly and durably sealed and bonded to the surfaces of various building materials such as Xiniupi Self-Fusion Type Special Multi-functional Protective membrane, metal, glass, and plastic.
 3. Excellent air tightness and water tightness.
 4. Excellent extrudability, which is conducive to construction.
1. 优异的弹性、耐紫外线和耐气候老化性能。
 2. 优异的附着力，无需底涂，与西牛皮自融合型特种功能防护膜、金属、玻璃、塑料等多种建筑材料表面均可牢固持久密封粘结。
 3. 优异的气密性和水密性。
 4. 挤出性优异，利于施工。

Scope of Application 适用范围

1. It is suitable for the sealing and leak-proof treatment of various edge lapping joints of Xiniupi Self-Fusion Type Special Multi-functional Protective membrane.
 2. It is suitable for the caulking, sealing, and leak-proof treatment of various types of doors, windows, interior and exterior walls, and non-structural glass curtain walls.
1. 适用于西牛皮自融合型特种功能防护膜的各式收边搭接处的密封、防漏处理。
 2. 适用于各类门、窗、内外墙、非结构性玻璃幕墙的填缝、密封、防漏处理。

Application Method 施工方法

1. The construction surface should be clean, dry, and free of dirt.
 2. If necessary, cut the pointed nozzle provided with the glue gun. This product needs to be in full contact with both sides of the sealing part.
1. 施工表面应清洁、干净、干燥、无污垢。
 2. 需要尺寸切开胶枪配套的尖嘴，本品需与密封部位两侧充分接触。

Precautions 注意事项

1. The construction temperature should be (5 to 45)°C.
 2. Good ventilation should be maintained during construction and curing. Before the glue slurry has cured after glue application, it is not suitable to completely isolate the air.
 3. Bonding tests should be conducted before the project starts.
1. 施工温度宜为(5~45)°C。
 2. 施工和固化过程中应保持良好的通风，施胶后胶浆尚未固化之前不宜完全隔绝空气。
 3. 在工程开工前宜进行粘结性测试。

Packaging, Storage and Transportation 包装、贮存与运输

1. Prevent sun exposure and rain, and avoid packaging damage.
 2. The storage temperature should not be higher than 45°C.
1. 防止日晒雨淋，避免包装破损。
 2. 温度不宜高于45°C。

Execution Standard, Type and Shelf Life 执行标准、类型和保质期

1. Execution Standard: GB/T 14683-2017 "Silicone and Modified Silicone Building Sealants".
 2. Type: (SR)GB/T 14683-2017-I-Gw-35HM.
 3. Shelf life: Under cool and dry conditions below 27°C and when unopened, the shelf life of this product is 12 months.
1. 执行标准：GB/T 14683-2017《硅酮和改性硅酮建筑密封胶》。
 2. 类型：(SR)GB/T 14683-2017-I-Gw-35HM。
 3. 27°C以下阴凉干燥条件下，未开封时，本品的保质期为12个月。



SPECIAL PURPOSE INTERFACE TREATING AGENT MATCHED WITH XINIUPI PROTECTIVE MEMBRANE 西牛皮自融合型特种功能防护膜配套基层处理剂

Product Introduction 产品简介

1. This product is a one-component new type of metal base treatment material composed of special rust conversion active substances, polymer emulsions, and various functional additives. It is a professional construction application supporting material for Xiniupi Self-Fusion Type Special Multi-functional Protective membrane.
2. This product is water-based, environmentally friendly, has strong permeability and sealing property, and is convenient for construction. It is mainly used for the base treatment of building metal materials with rust phenomenon. After construction, a hard sealing layer with extremely strong adhesion to the original metal base is formed, which can effectively improve the sealing and bonding effect of Xiniupi Self-Fusion Type Special Multi-functional Protective membrane and the original base.
1. 本品是由特种锈转活性物质、高分子聚合物乳液, 以及多种功能助剂组成的单组份新型金属基层处理材料, 是西牛皮自融合型特种功能防护膜的专业施工应用配套材料。
2. 本品水性环保、渗透性和封固性强、施工便捷, 主要用于已出现锈蚀现象的建筑金属材料的基层处理, 施工后形成与原金属基层极强附着力的坚硬封闭层, 可有效提高西牛皮自融合型特种功能防护膜与原基层的密封粘结效果。

Product Features 产品特点

1. It is used for the surface treatment of building metal materials with rust phenomenon to improve the adhesion between Xiniupi Self-Fusion Type Special Multi-functional Protective membrane and the rusted metal base;
2. It replaces the traditional grinding and rust removal process, and can be brushed manually or sprayed mechanically to improve construction efficiency and construction quality;
3. Cold construction, no need for torching or heating, and no harmful substances are released during the process, which is safe and environmentally friendly.
1. 用于已出现锈蚀现象的建筑金属材料的表面处理, 提高西牛皮自融合型特种功能防护膜与已生锈金属基层间的附着力。
2. 替代传统打磨除锈工艺, 可人工刷涂也可机械喷涂, 提高施工效率和施工质量。
3. 冷施工, 无需动火、加热, 过程中无有害物质释放, 安全、环保。

Scope of Application 适用范围

Applied on the surface of rusted building metal materials, it has the effect of improving the adhesion between the functional film for protecting building metal surfaces and the rusted metal base.

施作在已锈蚀的建筑金属材料表面, 具有提高建筑金属表面防护用功能膜与已生锈金属基层间的附着力。

Application Method 施工方法

Base surface cleaning:

Before applying this product, clean the rusty surface thoroughly, requiring no oil stains, no visible water, no debris, no dust, and no loose rust.

Construction of this product:

1. No water is needed during construction. Stir evenly and apply directly.
2. It can be applied by brushing, rolling or spraying, and apply this product evenly on the rusty surface.
3. If the rusty surface is severely rusted, a second application can be carried out 24 hours after the first application until the base surface requirements for the construction of the Xiniupi Self-Fusion Type Special Multi-functional Protective membrane are met.
4. The next process can be carried out after the coating solidifies to form a hard and closed layer.

基层清理:

施工本品前先将锈面清理干净, 要求无油污、无明水、无杂物、无粉尘、无松动锈蚀物。

本品施工:

1. 施工时无需加水, 搅均匀后直接施工。
2. 可采用刷涂、滚涂或喷涂的方式, 将本品均匀施工于锈面上。
3. 若锈面生锈严重, 可在第一遍施工24小时后再施工一遍, 直至达到施工西牛皮自融合型特种功能防护膜的基层要求为准。
4. 涂层固化形成坚硬封闭层后可进行下道工序施工。

Precautions 注意事项

1. This product should be stirred evenly before use, and it is prohibited to be mixed with other products.
1. The construction environment temperature should be (5 to 45)°C. Construction is not suitable when the humidity is more than 85% or in exposed environments without shelter during rain or in frost environments.
1. If it comes into direct contact with the skin or eyes, rinse immediately with clean water.
1. Clean the tools with water in time after construction. Unused materials should be sealed and stored tightly.
1. 本品使用前应搅拌均匀, 禁止与其它产品混合使用。
2. 施工环境温度应为(5~45)°C, 湿度大于85%或下雨无遮挡的外露环境、霜冻环境不宜施工。
3. 如直接接触皮肤或眼睛, 应立即用清水冲洗。
4. 施工后及时用水清洁机具, 未使用完的材料应密封盖紧储存。

Packaging, Storage and Transportation 包装、贮存与运输

1. This product is a water-based product, non-flammable and explosive, and can be transported as general goods.
2. During transportation and storage, it should be protected from sun exposure and rain, and packaging damage should be avoided.
3. The transportation and storage temperature is (5 to 45)°C: When the transportation or storage temperature is lower than 5°C, corresponding heat preservation measures should be taken to prevent this product from freezing, demulsifying and being damaged by freezing.
1. 本产品为水性产品, 非易燃易爆品, 可按一般货物运输。
2. 运输及贮存时应防止日晒雨淋, 避免包装破损。
3. 运输与贮存温度为(5~45)°C; 当运输或贮存温度低于5°C时, 应采取相应的保温措施, 防止本品结冰、破乳、冻坏。

Reference Amount, Shelf Life and Execution Standard 参考用量、保质期和执行标准

1. One kilogram covers 8-10 m². Adjust amount based on surface rust and equipment used.
2. Under normal transportation and storage conditions, when the product is unopened, the shelf life of this product is 12 months.
3. Execution Standard: Q/XNP 37-2024 "Special purpose interface treating agent matched with functional protective membrane for constructions' metal surface protection".
1. 一公斤本品可施工的面积约为(8~10)平方米; 具体用量应根据施工现场基面的锈蚀情况和施工机具类型进行调整。
2. 在正常的运输与贮存条件下, 产品未开封时, 本品的保质期为12个月。
3. Q/XNP 37-2024 《建筑金属表面防护用功能膜专用基层处理剂》。