



常州东方涂料（尼日利亚）有限公司

CHANGZHOU DONGFANG COATING(NIGERIA)CO.,LTD

产品技术参数 Product Technical Data GT-WRP-FP2.0-DF 膨胀型钢结构防火涂料 GT-WRP-FP2.0-DF Fire Retardant Coating For Expansion Steel Structure

产品说明

Product Description

本产品是溶剂型超薄建筑钢结构防火涂料，可施工于暴露在户外、高湿度以及海洋等环境下的钢结构。依据 CCCF-CPRZ-17：2019 消防类产品认证实施规则火灾防护产品，防火材料产品也适用于室内建筑钢结构。在遇到火后形成耐火隔热层，可增强柱、梁以及桁架等钢结构的耐火性能。

This product is a solvent-based ultra-thin fireproof coating for building steel structures. It can be applied to steel structures exposed to outdoor environment, high humidity and ocean environment

According to CCCF-CPRZ-17:2019 fire protection products, fire protection materials products are also applicable to indoor building steel structure. After the formation of fire insulation layer, can enhance the fire resistance of column, beam and truss steel structure.

设计用途

Intended Uses

该涂料薄而轻，遇火时膨胀发泡，形成致密的防火隔热层，能有效延长钢结构达到临界温度（500℃左右）的时间，使得有足够的时间来消灭火灾，从而保障广大人民的生命和财产安全。本涂料适用于机场、车站、工业厂房、学校、医院、体育馆、高层建筑等室内外钢结构的保护及装饰。

The coating is thin and light, which foams in case of fire to form compact fire Retardant and heat insulation layer to effectively extend the time for steel structure to reach critical temperature (around 500℃), making sufficient time to extinguish fire and protect the life and property of people. This coating is suitable for airport, railway station, industrial workshop, school, hospital, gymnasium, high-rise building and other indoor and outdoor steel structure protection and decoration.

涂装数据

Coating Data

颜色 Color 白色 white
 光泽 Gloss Level 哑光 matt
 体积固体份 Volume Solids 80±2%

耐火时间 Fire resistant time (h)	涂层干膜厚度 Dry film thickness of coating (mm)	理论用量 Theory of dosage (kg/m ²)
0.5	0.6-0.7	0.9-1.0
1.0	1.2-1.4	1.8-2.0
1.5	1.5-1.7	2.2-2.4
2.0	2.0-2.2	3.0-3.2

实际涂布率 Practical Coverage 允许适当的损耗系数 Allow proper loss coefficient
 施工方法 Method of Application 高压无气喷涂，刮涂，刷涂，滚涂。 High pressure airless spraying, scraping coating, brushing coating, rolling coating.
 干燥时间 Drying time 推荐面漆重涂间隔 Overcoating interval with self

温度 Temperature	表干 Touch Dry	硬干 Hard Dry	最小 Minimum	最大 Maximum
25°C	2 小时/ hours	8 小时/ hours	8 小时/ hours	无限制/ Unlimited

不同的温度和湿度下施工的涂层厚度，干燥时间都会受到影响，在涂装面漆前，需至少干燥 48 小时。推荐完全干燥后再施工面漆涂料，干透与否可用指甲判断。

The coating thickness and drying time will be affected by different temperature and humidity. It should be dried for at least 48 hours before applying the top coat. It is recommended to apply finish paint after complete drying, dry or not can be judged by fingernails.

产品数据

Product Data

产品重量 Product Weight	理论值 Calculated :1.25 kg/L		
包装规格 Pack Size	包装规格 Unit Size	单组份 Single Part	
	20 公升 litre	体积 Vol	包装 Pack
		20 公升 litre	20 公升 litre
关于可提供的其它包装规格，请与我们联系。			

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本产品说明书取代以前的版本，产品技术说明书应与安全技术说明书及施工指导一起阅读。也可查询我们的网站:www.dongfangcoating.com 或电话联系+234 8142485508,+234 9030009201

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	For availability of other pack sizes, please contact us.	
贮存 Storage	贮存期限 Shelf Life	在 25° C 时, 至少为 12 个月。此后应在检查后再使用。贮存于干燥、阴凉的环境之中, 远离热源及火源。 12 months minimum at 25°C. Subject to re-inspection thereafter. Store in dry, shaded conditions away from sources of heat and ignition.

表面处理

Surface treatment

所有待涂表面应清洁、干燥且无污染物。涂覆前, 所有表面应按照 ISO 8504: 2000 标准进行评估和处理。
All surfaces to be coated shall be clean, dry and free from contaminants. All surfaces shall be evaluated and treated in accordance with ISO 8504:2000 prior to application.

油和油脂应按照 SSPC-SP1 溶剂清理标准除去。

Oil and grease shall be removed according to SSPC-SP1 solvent cleaning standard.

喷射处理

Blasting

钢材表面喷砂清理至 Sa2.5 (ISO 8501-1:2007) 或者 SSPC-SP6。如果在喷砂清理和施工 GT-WRP-FP2.0-DF 之间发生了氧化, 表面应再进行喷砂至规定的目视标准。

The steel surface is sand-blasted to conform to Sa2.5 (ISO 8501-1:2007) or SSPC-SP6. If oxidation occurs between sand blasting and GT-WRP-FP2.0-DF application, the surface shall be sand-blasted to the specified visual standard.

通过喷砂清理过程暴露出来的表面缺陷应打磨、填没或以合适的方式进行处理。

Surface defects exposed during the sand blasting process shall be polished, filled or treated in a suitable manner.

表面粗糙度必须至少为 50 微米

The surface roughness must be at least 50 microns.

预涂有车间底漆的钢结构

Steel structure precoated with shop primer

焊缝和破损区域需要至少处理到 St3 (ISO 8501-1: 2007) 或 SSPC-SP3。喷砂处理至 Sa2.5 (ISO 8501-1:2007) 或 SSPC-SP6 可以获得最佳性能。如果达不到这个要求, 推荐采用动力工具处理达到 SSPC-SP11。

Welds and damaged areas shall be at least treated to conform to St3 (ISO 8501-1:2007) or SSPC-SP3. They shall be sand-blasted to conform to Sa2.5 (ISO 8501-1:2007) or SSPC-SP6 to obtain the optimum performance. If this requirement is not met, it is recommended to treat with a power tool to achieve SSPC-SP11.

如果车间底漆呈现大面积或大范围散射状损坏, 可能需要全面进行刷净喷砂处理。

If the shop primer is damaged in a scattered manner in a large area or range, it may be cleaned down and sand-blasted.

施工说明

Construction description

混合 mixing

这种涂料是一种单组份涂料, 施工前应采用动力搅拌器彻底搅拌。

Mixing: this paint is a single-component paint, which shall be completely stirred with a power stirrer before construction.

推荐施工方法

无气喷涂 喷嘴直径 0.46-0.66 毫米喷嘴处的油漆总压力不低于 176 千克/平方厘米。

Recommended construction method

Airless spraying: nozzle diameter: 0.46-0.66 mm; the total paint pressure at the nozzle shall not be less than 176 kg/cm².

稀释剂 thinner

防火涂料稀释剂

Fire retardant coating thinner

作业暂停

勿要让涂料保留在漆管、喷枪或喷涂设备中。采用专用防火涂料稀释剂彻底冲洗所有设备。油漆混合后不宜重新密封, 如果工作中断时间过长, 建议重新混合一组新的油漆进行施工。

Operation suspension

Do not retain paint in the paint tube, the spray gun or the spraying equipment. Rinse all equipment thoroughly with fire retardant coating thinner. It is not recommended to reseal the paint after mixing. If the work is interrupted for too long time, it is recommended to remix a set of paints for construction.

清洗

所有设备在使用后, 应立即采用防火涂料稀释剂进行清洗。在日常工作过程中定时冲洗喷涂设备, 是一个良好的习惯。清洗频率取决于喷涂量、温度、喷涂时间, 包括中断的时间等因素。

Cleaning

All equipment shall be cleaned immediately with fire retardant coating thinner after use. It is a good habit to wash the spraying equipment regularly in daily work. The cleaning frequency depends on quantity of spray, temperature and spraying time, including interruption time and other factors.

剩余漆料和空罐均应根据有关的地区法规处理

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Residual paint and empty cans shall be disposed in accordance with the relevant regional regulations

产品特性

Product characteristics

可施工于暴露于气候条件下的钢结构，保护建筑钢结构的外观；可在具有细丝工艺的钢材及复杂钢结构上施工，不增加静态载荷；施工简单，相应面漆，具有多种颜色可选。

基面和环境温度最低+5℃，最高+40℃。风速在 5m/s 以上都不宜施工。基面和未固化的地面温度必须至少高于露点 3℃，如果相对湿度超过 90%，采取特殊措施避免在施工过程中水汽凝结！

It can be applied to steel structures exposed to weather conditions to protect the appearance of building steel structures. It can be constructed on steel and complex steel structures with fine wire technology without increasing static load. Simple construction, corresponding topcoat, with a variety of colors available. Base surface and ambient temperature: minimum +5℃, maximum +40℃. Wind speed above 5m/s is not suitable for construction. The temperature of the base and uncured ground must be at least 3 ° C above the dew point. If the relative humidity exceeds 90%, special measures should be taken to avoid condensation during construction!

防火涂层需多次施工方可达到所需干膜厚度。推荐第一遍刷涂最厚 400 μ m，以后每一遍刷涂 600-700 μ m。

Fire retardant coating needs to be applied several times to achieve the required dry film thickness. A maximum thickness of 400μm is recommended for the first brush and 600 to 700μm for each subsequent brush.

GT-WRP-FP2.0-DF 并非设计用于连续浸于水中。

GT-WRP-FP2.0-DF is not designed for continuous immersion in water.

在需要具有良好的保光性和保色性的耐久装饰性表面时，应采用推荐的面漆进行复涂。

When durable decorative surfaces with good gloss retention and colour retention are required, the recommended finish should be used.

系统配套性

System compatibility

底涂：环氧磷酸锌底漆、环氧通用油漆、环氧富锌底漆、丙烯酸聚氨酯底漆。

中涂：GT-WRP-FP2.0-DF 膨胀型钢结构防火涂料

面漆：丙烯酸聚氨酯面漆、氟碳防腐面漆。

Primer: epoxy zinc phosphate primer, epoxy general paint, epoxy zinc rich primer, acrylic polyurethane primer.

Intermediate coat: Fire retardant coating for expansion steel structure

Finish: acrylic polyurethane topcoat, fluorocarbon anti corrosive topcoat.

还可提供其他油漆配套使用，请向常州东方涂料尼日利亚有限公司咨询。

Other paints are also provided for compatible application. Please consult with CHANGZHOU DONGFANG COATING (NIGERIA) CO., LTD.

安全注意事项

Safety precautions

本产品旨在仅由工业领域中的专业施工人员按照本手册，材料安全数据手册和包装容器上所给定的建议进行施工，未经查阅常州东方涂料尼日利亚有限公司为其客户提供的材料安全数据手册（MSDS），不应使用本产品。

This product shall be used by professional coating workers on the production site in accordance with the recommendations in this manual, the material safety data sheet and the instructions on the packaging containers. This product shall not be used without consulting the material safety data sheet (MSDS) provided by CHANGZHOU DONGFANG COATING(NIGERIA)CO.,LTD. to its customers.

所有于施工和使用本产品有关的工作，都必须根据各种有关的国家卫生、安全和环保标准与法规进行。

All work related to the construction and use of the product must be carried out in accordance with the relevant national health, safety and environmental standards and regulations.

如果需要在涂有本产品的金属上进行焊接或火焰切割，会产生粉尘和烟雾，因此需要用合适的个人防护设备及充分的局部通风措施。

If welding or flame cutting is required on the metal coated with the product, dust and smoke will be generated. Therefore, appropriate personal protective equipment and adequate local ventilation will be required.

如果对本产品的适用性存在疑惑，请向常州东方涂料尼日利亚有限公司咨询。

If there is any doubt about the applicability of this product, please consult with consult with CHANGZHOU DONGFANG COATING (NIGERIA) CO., LTD

重要说明

Important explanation

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The information provided in the product manual is not exhaustive. Any person who uses any product other than those specifically recommended in this manual for any purpose without our written confirmation shall be at the risk of the product's suitability for its intended purpose. Although all suggestions or statements made about the product (whether in this manual or otherwise) are correct in our best understanding, we cannot control the quality or condition of the substrate or the factors affecting the use and application of the product. Therefore, we shall not be liable (to the maximum extent permitted by law) for any performance problem of the products or any loss or damage caused by the use of the products unless we specifically agree to such practice in writing. We hereby disclaim any express or implied warranties or representations, whether by legal operation or in other ways, including but not limited to implied warranties of merchantability or fitness for a particular purpose. All supplied products and instructions are subject to our standard sales terms and conditions. You should request a copy of this document and read it carefully. The information contained in this product manual will be modified from time to time according to experiences and our development policy. It is the customer's responsibility to check the latest version of the product manual with the local representative before using the product.

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