



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

### W61-400 有机硅耐高温油漆

### W61-400 Organic Silicone High Temperature Resistant Paint

#### 产品说明

##### Product Description

这是一种单组份，耐高温，含有有机硅酮树脂，铝银浆等。能耐受高达 540℃ 的温度，在大气环境下可作为底漆、中间漆、面漆等使用。适用于适当处理的碳钢、镀锌钢、不锈钢和铝材。

It is a single component, high temperature resistant, containing silicone resin, aluminum silver paste, etc. It can withstand temperatures up to 540°C and can be used as a primer, intermediate, or topcoat in atmospheric conditions. Suitable for properly treated carbon steel, galvanized steel, stainless steel and aluminum.

#### 设计用途

##### Intended Uses

用于保护温度高达 540℃ 的明火烟囱、普通烟囱、排气装置、通风设备和管道区域的钢材免受腐蚀。

Used to protect steel from corrosion in open fire chimneys, ordinary chimneys, exhausts, ventilators and piping areas at temperatures up to 540 ° C.

如果需要最强的防腐保护，应该在涂覆本产品前，先涂一道硅酸锌底漆。

If the strongest anti corrosive protection is required, a zinc silicate primer should be applied before the product is coated.

#### 涂装数据

##### Coating Data

颜色 Color	铝色，黑色等有限范围颜色 aluminum, black and limited range colors			
光泽 Gloss Level	不适用 not applicable			
体积固体份 Volume Solids	38±2%			
典型厚度 Typical Thickness	干膜厚 25-30 微米 Dry film thickness of 25-30 microns.			
理论涂布率 Theoretical Coverage	在干膜 25 微米的情况下，15.2 平方米/公升 15.2 m <sup>2</sup> /L at the dry film thickness of 25 microns.			
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	无气喷涂，刷涂，滚涂 Airless spraying, brush coating, roller coating			
干燥时间	推荐面漆重涂间隔			
Drying time	Overcoating interval with self			
温度	表干	硬干	最小	最大
Temperature	Touch Dry	Hard Dry	Minimum	Maximum
5°C	90 分钟/ minutes	10 小时/ hours	24 小时/ hours	无限制/ Unlimited
15°C	60 分钟/ minutes	6 小时/ hours	24 小时/ hours	无限制/ Unlimited
25°C	30 分钟/ minutes	4 小时/ hours	24 小时/ hours	无限制/ Unlimited
40°C	15 分钟/ minutes	2 小时/ hours	12 小时/ hours	无限制/ Unlimited

#### 产品数据

##### Product Data

产品重量 Product Weight	理论值 Calculated : 1.1 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。 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.	

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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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#### 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

Abrasive Blast Cleaning

钢材表面喷砂清理至 Sa2.5 (ISO 8501-1:2007) 或 SSPC-SP6.如果在喷砂清理和施工 W61-400 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 W61-400 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.

建议表面粗糙度为 25-50 微米。

It is recommended that the surface roughness be at least 25-50 microns.

手工或动力工具处理

Treat manually or with a power tool.

施工 W61-400 前，必须除去存在于表面上的所有涂层。

All coatings on the surface must be removed prior to the application of W61-400.

手工或动力工具清理至 St3 (ISO 8501-1:2007) 或 SSPC SP3 的最低标准

Clean manually or with a power tool to conform to St3 (ISO 8501-1:2007) or SSPC SP3 minimum standard.

预涂有底漆的表面

Primed Surfaces

W61-400 适于施工在新涂硅酸锌车间底漆的钢构件。

W61-400 is suitable for application to unweathered steelwork freshly coated with zinc silicate shop primers.

如果锌粉车间底漆出现大面积散射状脱落或大量的锌盐，整个区域需要进行全面的扫砂清理。不适于复涂其它类型的车间底漆，需要采用磨料喷砂彻底清除。

If the zinc shop primer shows extensive or widely scattered breakdown, or excessive zinc corrosion products, overall sweep blasting will be necessary. Other types of shop primer are not suitable for overcoating and will require complete removal by abrasive blast cleaning.

焊缝和损坏区域应喷砂清理至 Sa2½ (ISO 8501-1:2007) 或 SSPC SP6 标准

Weld seams and damaged areas should be blast cleaned to Sa2½ (ISO 8501-1:2007) or SSPC-SP6.

#### 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

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

混合比例 Mixing ratio

不适用 Not applicable

推荐施工方法

空气喷涂（带压力罐）喷枪

Recommended construction method

Air spraying (with pressure tank) gun

空气喷涂（传统）使用合适的专用设备。

Air spraying (traditional) Use suitable special equipment

稀释剂 thinner

有机硅油漆专用稀释剂

Organic silicon paint thinner

作业暂停

勿要让涂料保留在漆管、喷枪或喷涂设备中。采用专用有机硅油漆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 organic silicon paint 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，应立即采用有机硅油漆稀释剂进行清洗。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 organic silicon paint thinner after use. It is a good habit to wash the spraying equipment regularly in daily



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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

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

#### 产品特性

##### Product characteristics

W61-400 为潮气固化型，在热固化过程中不像普通硅酮漆一样产生水蒸气。因此可施工厚度为 25 微米，而不是常规的 15 微米。

W61-400 is a moisture curing paint, which does not produce water vapor in the heat curing process like ordinary silicone paint. Therefore, the application thickness is 25 microns instead of 15 microns.

在加热情况下，单道涂层可施工而不起泡的最高厚度为 40 微米。

In case of heating, a single coating can be applied to a maximum thickness of 40 microns without bubbling.

可施工 3 道涂层，每道涂层的厚度为 25 微米，施工各道涂层之间不需要进行加热。在不能采用硅酸锌底漆的情况下，这种方式可提供最大的保护作用。

Three coatings can be applied, the thickness of each coating is 25 microns, and no heating is required between coatings. This provides maximum protection when zinc silicate primer is not available.

有两种颜色的品种供选择：铝色和黑色。由于含铝的品种性能更佳，因此我们建议尽可能使用铝色的 W61-400。黑色品种则仅用于特殊施工/要求。请向常州东方涂料尼日利亚有限公司咨询，获取更多资料。

There are varieties with two colors for selection: aluminum and black. Due to the superior performance of the aluminum-containing variety, it is recommended that the aluminum W61-400 be used wherever possible. The black variety is used only for special applications/requirements. Please consult with CHANGZHOU DONGFANG COATING (NIGERIA) CO., LTD for more information.

W61-400 的铝粉品种适于保护在干燥温度高达 540° C 的条件下连续工作的、经过喷砂处理的钢结构。但是，在手工处理底材上的最高使用温度为 400° C。

W61-400 aluminum powder varieties are suitable for the protection of steel structures continuously working at the drying temperature up to 540°C and sand-blasted. However, the maximum operating temperature is 400°C on the manually treated substrate.

W61-400 的黑色品种适于保护在干燥温度高达 400° C 的条件下连续工作的、经过喷砂处理的钢结构。但是，在手工处理底材上的最高使用温度为 300° C。

W61-400 black varieties are suitable for the protection of steel structures continuously working at the drying temperature up to 400°C and sand-blasted. However, the maximum operating temperature is 300°C on the manually treated substrate.

在无机锌底漆上复涂耐高温涂料前，应遵守产品数据手册关于固化的说明，确保无机锌底漆已完全固化。

Before the high temperature resistant paint is re-coated on the inorganic zinc primer, the curing instructions in the product data sheet shall be followed to ensure that the inorganic zinc primer has been completely cured.

为了达到最佳防腐作用而采用硅酸锌底漆时，建议硅酸锌涂层的干膜厚度为 50 微米，以确保在继而的温度循环条件下达到最大表面强度并避免面漆出现剥落。

When the zinc silicate primer is used for optimal corrosion protection, it is recommended that the dry film thickness of the zinc silicate coating be 50 microns to ensure the maximum surface strength in the subsequent temperature cycles and avoid finish peeling.

最好在硅酸锌涂料发生氧化之前进行复涂。但在不可能做到这一点的情况下，硅酸锌表面应清洁且无锌腐蚀产品。

It is best to re-coat the zinc silicate paint before oxidation. However, if this is not possible, the zinc silicate surface shall be clean and free from zinc corrosion product.

在腐蚀环境中，直接在硅酸锌底漆上使用黑色 W61-400。由于下面底漆的“盐析作用”会导致显著的颜色变化，从黑色变成灰色。在施工 W61-400 黑色涂料前，先施工一道 W61-400 铝粉涂层，首先封闭硅酸锌底漆，可大大减少这种颜色变化。这种漆系的最高耐干温性为 400° C。

In corrosive environments, use black W61-400 directly on the zinc silicate primer. Due to the salting-out effect of the undercoat, significant color change from black to gray will occur. Before the application of W61-400 black paint, firstly apply a W61-400 aluminum powder coating to seal the zinc silicate primer, greatly reducing this color change. The highest dry temperature resistance of the paint is 400°C.

W61-400 不适用暴露于酸性或碱性环境。

W61-400 is not suitable for exposure to acidic or alkaline environments.

#### 系统配套性

##### System compatibility

本产品为专用涂料，因此只能与少数几种产品配套合适的底漆有：E06-1 无机富锌底漆、W61 有机硅耐高温底漆，合适的面漆有：W61-400/600 有机硅耐高温面漆。

This product is a special paint, so that it can only be matched with a few products. The suitable primer is E06-1

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inorganic zinc-rich primer, W61 organic silicon high temperature resistant primer, and the suitable finish is W61-400/600 organic silicon high temperature resistant finish.

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.

#### 安全注意项

##### Safety precautions

本产品旨在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.

所有与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

产品说明书中所提供的资料并非详尽无遗，任何人因任何目的，未首先经我们书面确认而使用本说明书特别推荐以外的任何产品，则自行承担产品对其预期目的适用性这一风险。虽然以我们的最佳认知，对产品所提供的所有建议或声明（无论在本说明书中或以其他方式提供的）均正确无误，但我们无法控制底材的质量或状况或影响该产品使用和应用的多种因素。因此，除非我们书面特别同意这种做法，否则我们对于所生产的任何产品性能问题，或因使用产品而导致的损失或损坏概不负责（在法律允许的最大范围内）。在此，我们不承担通过法律运作或其他方式的任何明示或暗示的担保或陈述包括但不限于暗示的适销性担保或针对特定用途的适用性的担保。所有供应的产品及提供指导受我们的标准销售条款和条件支配。您应要求获取本文件的副本并仔细阅读。本产品说明书所包含资料将根据经验及我们发展的政策随时进行修改。在使用产品前，与当地代表一起检查所持产品说明书为最新版本是客户的职责。

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.