



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

H53-83 厚浆型环氧重防腐油漆

H53-83 High Build Heavy Anticorrosive Epoxy Paint

产品说明

Product Description

这是一种高固体，厚浆型，高性能，双组份，环氧树脂漆，具备优异的耐化学性、耐磨性和极佳的抗阴极剥离性能。

It is a high solid, thick paste type, high performance, two component, epoxy resin paint with excellent chemical resistance, wear resistance and excellent cathodic stripping resistance.

设计用途

Intended Uses

适用于作为高性能涂料系统的一部分，为强腐蚀性区域提供防腐阻隔。

It is suitably used as high-performance coating system to provide corrosion resistance in highly corrosive areas.

H53-83 可大气环境和浸渍环境中以作为高性能的底漆、有色的中间漆/内层漆使用,也可在不需要优质装饰面的地方用作面漆。

H53-83 can be used as a high-performance primer, tinted intermediate/inner paint in atmospheric and immersion environments, and as a top coat where a quality finish is not required.

广泛用于近海环境，包括飞溅区、潮汐环境、波浪环境、炼化厂、造纸厂、码头等。

Widely used in offshore environment, including splash area, tidal environment, wave environment, refinery, paper mill, wharf, etc.

涂装数据

Coating Data

颜色 Color	有限范围颜色 limited range colors			
光泽 Gloss Level	半光 half matte			
体积固体份 Volume Solids	80±2%			
典型厚度 Typical Thickness	干膜厚 200-500 微米 dry film thickness of 200-500 microns.			
理论涂布率 Theoretical Coverage	在干膜 300 微米的情况下, 2.67 平方米/公升 2.67 m ² /L at the dry film thickness of 300 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	空气喷涂, 无气喷涂, 刷涂, 滚涂 air spraying, airless spraying, brush coating, roller coating			
干燥时间 Drying time	推荐面漆重涂间隔 Overcoating interval with finish			
温度 Temperature	表干 Touch Dry	硬干 Hard Dry	最小 Minimum	最大 Maximum
10°C	20 小时/ hours	36 小时/ hours	36 小时/ hours	14 天/days
15°C	14 小时/ hours	16 小时/ hours	16 小时/ hours	10 天/days
25°C	4 小时/ hours	10 小时/ hours	10 小时/ hours	7 天/days
40°C	2 小时/ hours	8 小时/ hours	8 小时/ hours	5 天/days

产品数据

Product Data

产品重量 Product Weight	理论值 Calculated : 1.63 kg/L				
包装规格 Pack Size	包装规格 Unit Size	A 组份 Part A		B 组 Part B	
	20 公升 litre	体积 Vol	包装 Pack	体积 Vol	包装 Pack
		16 公升 litre	20 公升 litre	4 公升 litre	4 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.			

发行日期 Date of issue: 01/01/2023

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

This product manual replaces the previous version. The product technical manual should be read together with the safety technical manual and construction instruction. Also check out our website: www.dongfangcoating.com Or call +234 8142485508,+234 9030009201



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

H53-83 厚浆型环氧重防腐油漆

H53-83 High Build Heavy Anticorrosive Epoxy Paint

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.

喷射处理

Abrasive Blast Cleaning

磨料喷砂清理至 Sa2.5 (ISO 8501-1:2007) 或 SSPC-SP6 的标准。如果在喷砂清理和施工 H53-83 的间隔内发生了氧化，表面应再行喷砂清理至规定的目视标准。

The surface is sand-blasted with abrasive to Sa2.5 (ISO 8501-1:2007) or SSPC-SP6. If oxidation occurs between sand blasting and H53-83 application, the surface shall be sand-blasted to the specified visual standard.

在喷砂清理过程中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 50-75 微米

The recommended surface roughness is 50-75 microns

手工或动力工具处理

Manual or power tool handling

当用于大气环境时，采用手动或动力工具清理至不低于 St3 (ISO 8501-1:2007) 或 SSPC-SP3 级。特别注意，所有的氧化皮必须除去，采用风铲或针枪无法完全清理的区域，需要进行局部喷砂清理至至少 Sa2 (ISO 8501-1:2007) 或者 SSPC-SP6 级。通常这种情况适用于 C 或者 D 级锈蚀。

When used in atmospheric environments, use manual or power tools to clean up to not less than St3 (ISO 8501-1:2007) or SSPC-SP3. In particular, all oxide must be removed and areas that cannot be completely cleaned with a wind shovel or needle gun should be locally sandblasted to at least grade Sa2 (ISO 8501-1:2007) or SSPC-SP6. This usually applies to grade C or D rust.

施工说明

Construction description

混合 mixing

本产品分两罐装，组成一个单元。使用时应按规定比例成对一次性混合。一经混合，必须在规定的混合寿命内使用。

This product is filled in two cans which form a unit. When being used, they shall be mixed in pairs by the prescribed proportion. Once they are mixed, it must be used within the specified mixing life.

(1) 采用动力搅拌器搅拌基料 (A 组分)。

(1) Stir base materials (component A) with a power stirrer.

(2) 将全部固化剂 (B 组分) 和基料 (A 组分) 混合，并采用动力搅拌器彻底搅拌。

(2) Mix all curing agents (component B) and base materials (component A) and thoroughly stir with a power stirrer.

混合比例 Mixing ratio

16: 4 体积比 by volume

混合使用寿命 Mixing service life

10°C 15°C 25°C 40°C

2 小时/hours 90 分钟/minutes 60 分钟/minutes 30 分钟/minutes

推荐施工方法

Recommended construction method

无气喷涂喷嘴直径 0.53-0.66 毫米喷嘴处的油漆总压力不低于 176 千克/平方厘米

Airless spraying: nozzle diameter: 0.53-0.66mm; the total paint pressure at the nozzle shall not be less than 176kg/cm².

稀释剂 thinner

环氧专用稀释剂

Epoxy thinner

作业暂停

Operation suspension

勿要让涂料保留在漆管、喷枪或喷涂设备中。采用专用环氧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。

Do not retain paint in the paint tube, the spray gun or the spraying equipment. Rinse all equipment thoroughly with epoxy 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

Cleaning

所有设备在使用后，应立即采用环氧稀释剂进行清洗。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。

All equipment shall be cleaned immediately with epoxy thinner after use. It is a good habit to wash the spraying equipment regularly in daily work. The



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

H53-83 厚浆型环氧重防腐油漆

H53-83 High Build Heavy Anticorrosive Epoxy Paint

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

采用无气喷涂施工，可获取一道涂层的最高膜厚。采用无气喷涂以外的其他施工方法，不可能达到所要求的涂膜厚度，采用空气喷涂施工，为了达到最高膜厚，需要进行多道交叉喷涂。在低温或高温下施工，为了达到最高膜厚，可能需要特殊的施工技术。

The maximum film thickness of a coating can be obtained by airless spraying. It is impossible to achieve the required film thickness by using other construction methods other than airless spraying. During air spraying, repeated cross spraying is required in order to reach the maximum film thickness. For construction at low or high temperature, special construction techniques may be required to achieve the maximum film thickness.

当用刷涂或滚涂涂装 H53-83 时，有必要多道施工以达到规定的系统干膜总厚度。

When H53-83 is painted by brush or roll coating, it is necessary to apply multiple layers to achieve the total thickness of the system dry film specified.

被涂表面温度必须至少高于露点 3°C。在整个施工和固化过程中，应确保有足够的通风和空气流动，防止“死角”存在；特别是在密闭空间施工时。在特殊情况下，如果需要进行复涂，而且涂膜已在低温高湿条件下进行固化，在施工后道面漆前，必须确保无胺盐存在。环境条件允许的时候，比如通风和空气流动很好，环氧稀释剂依旧可以使用（最大加入量为 5%）

The temperature of the coated surface must be at least 3°C above the dew point. Throughout the construction and curing process, adequate ventilation and air flow should be ensured to prevent the existence of "dead corners"; Especially in closed space construction. In special cases, if recoating is required and the film has been cured at low temperature and high humidity, it must be ensured that no amine salts are present before the finish coat after construction. When environmental conditions permit, such as good ventilation and air flow, epoxy thinner can still be used (maximum addition of 5%).

施工期间或施工后表面就发生冷凝，会导致表面无光及产生劣质涂膜。过早暴露于积水之中会引起颜色改变，特别是深色漆。Condensation occurs on the surface during or after construction, resulting in dull surfaces and poor-quality coatings. Early exposure to standing water can cause color changes, especially in dark paints

同所有环氧树脂漆一样，该产品暴露于外部大气中会发生粉化、褪色。但这些现象对其防腐性能没有影响。实际粉化速度取决于气候条件，通常仅限于表面薄层发生粉化。如果粉化层受紫外光照射，且有高速流水间歇冲刷，就会剥落，只有在这种情况下，粉化现象才会降低涂层的防腐性能。

Like all epoxy resin paints, the product will be powdered and faded being exposed to the outside atmosphere. However, those phenomena will not affect the corrosion resistance. The actual powdering rate depends on the climatic conditions and is usually limited to powdering on the surface thin layer. If the powdering layer is irradiated by ultraviolet light and intermittently washed by high-speed water, it will peel off. Only in this case, the powdering phenomenon will reduce the anti-corrosion performance of the coating.

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 color retention are required, the recommended finish should be used for recoating.

用于大气环境，直接施工在钢材上，一道涂层需要的最低干膜厚度为 350 微米，用于水浸渍环境，建议最低干膜厚度为 450 微米。这两种情况都可以用无气喷涂的方法单层涂覆。H53-83 适用于埋地条件下的钢结构（Im3 根据 ISO 12944-2）

The minimum dry film thickness required for a coating is 350 microns for atmospheric environment, directly applied to steel. The recommended minimum dry film thickness is 450 microns for water immersion environment. Both cases can be coated with a single layer by airless spraying. H53-83 Suitable for steel structures under buried conditions (Im3 according to ISO 12944-2)

H53-83 可与牺牲阳极和外加电流阴极保护系统配套使用。

H53-83 is compatible with sacrificial and impressed current cathodic protection systems.

系统配套性

System compatibility

H53-83 通常施工在采用干磨料喷砂、湿磨料喷砂或超高压水喷砂处理的裸露钢材上。

H53-83 will generally be applied to bare steel prepared by dry abrasive blasting, wet abrasive blasting or ultra-high pressure hydro blasting.

建议以下油漆与 H53-83 厚浆型环氧重防腐油漆配套使用：H06-1 环氧富锌底漆、H53-82 环氧磷酸锌底漆、H53-85 环氧中间漆、S52-68 脂肪族聚氨酯面漆、S52-2 聚氨酯丙烯酸面漆、FC52-68 氟碳面漆，还可提供其他油漆配套使用。

It is recommended that the following paints be used together with H53-83 High Build Heavy Anticorrosive Epoxy

发行日期 Date of issue: 01/01/2023

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

This product manual replaces the previous version. The product technical manual should be read together with the safety technical manual and construction instruction. Also check out our website:www.dongfangcoating.com Or call +234 8142485508,+234 9030009201



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

H53-83 厚浆型环氧重防腐油漆

H53-83 High Build Heavy Anticorrosive Epoxy Paint

Paint: H06-1 epoxy zinc-rich primer, H53-82 epoxy zinc phosphate primer, H53-85 epoxy intermediate paint, S52-68 aliphatic polyurethane coating, S52-2 acrylic polyurethane finish and FC52-68 fluorocarbon finish. Other paints are also provided for compatible application.

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 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.