

Apart from just a repair mortar



**Core-mender**

**YOUR ASSOCIATE ENGINEER**



[www.corelink-group.com](http://www.corelink-group.com)

### Description

Core-mender is a Nanotechnology adhesive product that can overcome many weaknesses that exist in other alternatives in the market. Qualified at a premium of its strength, resiliency and durability, Core-mender can firmly deliver the bonding, hardening and repairing effectiveness to most architectural and industrial materials such as concrete, masonry, ceramic tiles, metal, wood, plastics and gypsum board.





### Product Features

- ◆ Powerful adhesive strength
- ◆ Excellent weatherability
- ◆ Environmental friendly
- ◆ High elasticity and punch resistance
- ◆ Anti-corrosion and water resistance
- ◆ Usable on wet circumstances
- ◆ Intense temperature tolerance (will not have deterioration between -40°C and 250°C)
- ◆ Rapid curing time (20 minutes for preliminary and 48 hours for permanency)
- ◆ No dripping occurrence, work free on upright and overhang

### Processing Methods

1. Remove all loose particles, dust, grease and other contaminants from substrate surface.
2. Mix the two compounds in weight ratio A:B=1:4 by a simple stirrer and set for use within 20 minutes. Over which, the mixture will become solidified.
3. Apply mixture evenly onto substrate surface. Fix with substances to be bonded and leave for natural fastening.
4. If gravel or sand is added. The augmentation should not exceed 20% of the mass weight.
5. Use soapy detergent and water to clean tools and hands (it is recommended to wear protective clothing and gloves).
6. If eyes were contaminated, flush them with clean and running water for not less than 10 minutes. A doctor should then be consulted.

### Application

#### Bonding

- Bonding of new cement or concrete to old ones. Fixing of block work & brick work, walling & flooring, and other building requirements
- Jointing of cement or metal piping
- Adhesion of industrial materials in same sort or in varied natures, such as metal on earthenware or between different metallic items

#### Fastening

- Stabilization of embankment, bridge work and loading platform
- Grouting of pillar, stand and machinery foundation
- Hardening reinforcement for tunnel, dam, basement and special purpose room

#### Repairing

- Restoration of external or internal support and structures of building. Repairing of cracks and cavities. Can mix with pigment for surface daubing.
- Regular and emergency maintenance for roadway, slope, racing track and carpark. Can add with gravel and sand to increase hardness or work with steel ore for anti-slippery treatment
- Caulking of swimming pool, sink and water or oil tank

#### Protecting

- Preventive coating of steel bar, ferrous pipe and other construction materials from rusting and corrosion
- Preventive layer for ship hull and deck against abrasion and weathering

### Technical Specifications

Appearance	Compound (A) : Light yellow liquid Compound (B) : White paste
Mixing Ratio	(A):(B) = 1:4
Curing Time	15 minutes for preliminary, 2 days for permanency
Storage Life	2 years in original sealed condition at room temperature
Packaging	0.75/1.25kg per set (A + B)

### Agent/ Distributor:

### Physical Properties (BS 6319 Standard)

Property	Value	Days at Test
Compressive Strength (Part 2)	73 Mpa	2
Flexural Strength (Part 3)	26 Mpa	2
Slant Shear Strength - hardened concrete to hardened concrete (EN12615)	15 Mpa	7
Slant Shear Strength - fresh concrete to hardened concrete (EN12615)	17 Mpa	28
Tensile Strength (Part 7)	8 Mpa	2
Modulus of Elasticity in Compression (Part 6)	8.7 kN/mm <sup>2</sup>	2





## 紅金剛 高拉力黏固劑



紅金剛是通過納米技術及在美國研究之環保接合劑，可改善現今市面上相類似產品之缺點。紅金剛是一種可廣泛性應用於各種行業的高拉力，高抗壓力及高黏固力混合劑。本產品能高度發揮不同材料黏接、鞏固、加強硬度、結構修補和防漏功能，可應用行業包樓宇建築、大型基建、道路鋪設、防滑及維修、工業產品及器材的黏接和鞏固、各式喉管連接家居裝修等等。

### 產品特性

- 紅金剛本身無毒性、無需溶劑、抗酸鹼、耐高溫（可抵受攝氏 250°C 高溫）、防水、防銹及防腐蝕，可以在任何惡劣環境下發揮高拉力、高硬度及高黏接能力。
- 附合英國 BS6319 標準、中國國家標準。
- 快速固化週期~初固 20 分鐘，牢固 2 天。

### 使用範圍

#### 1. 黏接

- 相同材料黏接，如新舊混凝土黏合，鋅鐵屋頂與混凝土牆黏合，各類板材如雲石、瓷磚、金屬板和木板等之向相互黏合。
- 工業類別不同金屬之間與其他材料黏合。
- 橋樑及碼頭樁柱黏接及襯墊基床。

#### 2. 鞏固

- 地基、廠房及機器支座鞏固工程。
- 路軌、種鐵及預應力鋼纜灌漿。
- 地台、路牌、橙柱、牆身雲石及瓷磚鞏固。
- 地庫、特別用途房間、坑道及隧道額外鞏固及間隔工程。

#### 3. 維修

- 建築物裏外樁柱、牆身、間隔、天台、地面及各種石材的裂縫修補。可隨意添加色粉以附合周邊環境及顏色。
- 因冷縮熱漲或潮濕所引致裂縫修補。
- 道路、跑道、斜坡及停車場修補及防滑塗層，可添加石英砂以增加硬度。
- 各種材料地下管道、燃氣管、油管及化學物料管道修補。
- 水缸及油缸修補。

#### 4. 保護

- 樓宇、基建及碼頭鋼筋及工字塗層作防銹和防腐蝕處理。
- 船身及甲板塗層作防銹和防腐蝕處理。

## 使用方法

- 處理表層：清除所有泥沙、浮漿皮、雜物及鐵銹；如有油污和油脂殘留，可用天拿水抹去。
- 混合及調配劑量：以重量計算作一比四（1：4）混合在預先準備容器，按施工時間及範圍每 15 分鐘作標準分量。如混合劑停留超過 15 分鐘便逐漸轉成固體及不能使用。
- 把混合劑平均塗於平面施工範圍內並把其他黏合材料蓋上及穩固，讓其自然黏固。若須維修不規則裂縫及洞孔等，可把混合劑倒進灌注筒以打針方式注入修補範圍。如工程需要，可混合石英砂等材料（不超過 20% 比重）一併使用。
- 如有需要，可混合不同顏色漿粉或色粉以達致最佳效果。

## 主要技術指標

項目	評審標準	數據	測試日數
抗壓測試	英國 BS6319	73 MPa	2 天
抗彎測試	英國 BS6319	26 MPa	2 天
抗拉測試	英國 BS6319	8 MPa	2 天
與混凝土黏固力(乾混凝土對乾混凝土)	英國 BS6319	15 MPa	7 天
與混凝土黏固力(濕混凝土對乾混凝土)	英國 BS6319	17 MPa	28 天
收縮程度	香港房屋署	無裂痕	28 天

## 產品規格

材料形態	材料 A: 淺黃色液體 材料 B: 淺灰至白色膏體
混合比例	(A) : (B) = 1 : 4
固化時間	初固 20 分鐘, 2 天後永久固化
儲存期限	在室溫下不解封可保存 2 年
包裝	0.5 / 1 公斤(kg)套裝(A+B)

## 注意事項

- 施工時宜穿戴手套。皮膚或工具上黏染之材料，可以視液及清水清洗
- 材料若不慎觸及眼睛，須即時以清水沖洗最少 10 分鐘並延醫診治

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產品通過英國 BS6319 標準檢定，有關資料可向經銷商索取。

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