



Coelan China  
Room 609, Hua Na Business Center, No.1733,  
Lian Hua Road, Shanghai 201103, P.R.C  
Tel / Fax: 021-54285550  
E-mail: post@coelan.com.cn  
www.coelan.com.cn

科兰中国  
上海市莲花路1733号华纳商务中心609室 邮编:201103  
电话 / 传真:021-54285550  
邮箱:post@coelan.com.cn  
www.coelan.com.cn

工厂 Factory  
科兰建筑材料（马鞍山）有限公司  
马鞍山市雨山经济开发区天门大道南段1206号  
传真:0555-2961220

## KEMPER SYSTEM around the world

KEMPER SYSTEM Germany  
KEMPER SYSTEM GmbH & Co. KG  
www.kemper-system.com

KEMPER SYSTEM USA  
KEMPER SYSTEM AMERICA, Inc.  
www.kempersystem.net

KEMPER SYSTEM Canada  
KEMPER SYSTEM CANADA, Inc.  
www.kempersystem.ca

KEMPER SYSTEM United Kingdom  
KEMPER SYSTEM Ltd.  
www.kempersystem.co.uk

KEMPER SYSTEM France  
KEMPER SYSTEM s.r.l.  
www.kemper-system.fr

KEMPER SYSTEM Italy  
KEMPER SYSTEM Italia s.r.l.  
www.kemper-system.it

KEMPER SYSTEM India  
KEMPER SYSTEM Pvt. Ltd.  
www.kemper-system.in

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科兰钢纤维  
COELAN® COEPRO Steel Fiber





COELAN® 成立于1954年，隶属德国坚倍斯顿集团。COELAN® 为客户提供室内外使用的高质量液体防水涂料、专业地坪材料和各种装饰涂料。COELAN® 地坪系统是住宅、商业及工业项目的理想解决方案。

坚倍斯顿集团是全球液体防水系统领导者，50多年来其Kemperol®和COELAN® 品牌下的产品已被广泛应用于世界各地。集团分别在美国、中国、印度、加拿大、英国、法国、意大利设有分公司，并且在一些国家通过与当地施工商及经销商的合作来拓展市场。

优异的产品品质和良好的信誉使我们成为深受建筑师、规划师、开发商和承包商欢迎的国际合作伙伴。许多耳熟能详的工业及商业建筑都出现在了我们的成功项目案例中，如大众汽车厂房、福特汽车厂房、通用汽车厂房、大陆汽车电子洁净厂房、辉瑞制药洁净厂房、荷美尔生产加工厂房、普洛斯物流仓储、丰树物流仓储、乐歌物流仓储、阿斯利康地下车库、苏州博览中心地下车库、招商地产地下车库、上海海运大厦地下车库等。

COELAN® was founded in 1954 and belongs to the German Kemper System Group. Under the brand name COELAN®, the international specialist for liquid waterproofing produces and sells a wide range of high quality products and decorative coatings for indoor and outdoor use. The liquid applied floor coatings of the COELAN® brand are ideal for residential, commercial and heavily used industrial areas.

The Kemper System Group is a world leader in the supply of liquid-applied waterproofing and has been fully committed to the construction sector for over 50 years through its brands Kemperol® and COELAN®. Kemper System is complemented by independent subsidiaries in the USA, China, India, Canada, the UK, France, Italy and Poland. Moreover, the company boasts partnerships with qualified contractors and distributors in a number of countries.

Excellent product quality and good reputation has made us a much sought-after international partner for architects, planners, developers and contractors. Many of the best-known and most important industrial and commercial customers are on our list of references, such as Volkswagen, Ford, GM, Continental AG, Pfizer, Hormel, GLP, Mapletree, LOGOS, Astra Zeneca, Suzhou Expo Center, China Merchants Property, Shanghai Hai Yun Building etc.



钢纤维是当今世界各国普遍采用的混凝土增强材料。钢纤维混凝土具有抗裂、抗冲击性能强、耐磨强度高、可增加构件强度、延长使用寿命等优点。钢纤维混凝土中乱向分布的钢纤维的主要作用是阻碍混凝土内部微裂缝的扩展和阻滞宏观裂缝的发生和发展。在受荷（拉、弯）初期，水泥基料与纤维共同承受外力，当混凝土开裂后，横跨裂缝的纤维成为外力的主要承受者。因此钢纤维混凝土与普通混凝土相比具有一系列优越的物理和力学性能。

Steel fiber is widely used to reinforce the concrete in many countries in the world. Steel fiber reinforced concrete (SFRC) has the advantages of crack resistance, strong impact resistance, high abrasion resistance, increasing component strength and prolonging service life, etc. The main function of steel fibers is to prevent the expansion of micro cracks and the occurrence and development of macro cracks. At the initial stage of loading (tension and bending), cement-based materials and steel fibers bear the external forces together. When concrete cracks, the fibers across the cracks become the main bearers of external forces. Therefore, compared with ordinary concrete, steel fiber reinforced concrete has a series of superior physical and mechanical properties.



常规混凝土 Normal concrete	钢纤维混凝土 Steel fiber reinforced concrete
韧性 Toughness	增加20~100倍 Increased by 20~100 times
弯曲、切变 Bending & shear	增加1.3~1.8倍 Increased by 1.3~1.8 times
冲击 Impact resistance	增加5~15倍 Increased by 5~15 times
抗裂性 Crack resistance	增加3~4倍 Increased by 3~4 times
抗压强度 Compressive strength	增加1~1.1倍 Increased by 1~1.1 times

钢纤维自身高抗拉强度及两端弯钩能够保证钢纤维与混凝土有效锚固，在混凝土变形时共同作用。钢纤维在混凝土中有效传递与分配应力，使裂缝化解为微细散置的微细裂缝。

The high tensile strength of steel fiber itself and the bending hooks at both ends can ensure the effective anchorage of steel fiber and concrete, and work together in concrete deformation. Steel fiber can effectively transmit and distribute stress in concrete, and make cracks become micro-scattered cracks.

### 钢纤维混凝土技术优势 / Technical advantages of steel fiber reinforced concrete

降低混凝土脆性，大幅度提高混凝土韧性  
Reduce the brittleness of concrete and greatly improve the toughness of concrete

控制混凝土微裂缝的产生和阻止宏观裂缝的扩展  
Control the production of micro cracks and prevent the expansion of macroscopic cracks

显著提高混凝土抗弯拉强度、疲劳性能、抗冲击和抗爆炸性能  
Significantly improve the flexural strength, fatigue resistance, impact resistance and explosion resistance of concrete

可满足混凝土结构耐久性要求  
Can meet the durability requirements of concrete structures

与普通混凝土相同的搅拌和施工性能，施工便捷  
The same mixing and construction as ordinary concrete, easy application

和易性好，在混凝土中分布均匀，不结团，不裸露  
Distribute evenly in the concrete, no clustering and exposure

### 钢纤维混凝土经济优势 Economic advantages of steel fiber reinforced concrete

在同等强度下减薄了混凝土厚度（30%），降低造价  
Under the same strength, the thickness of SFRC concrete is reduced by 30% and the cost is reduced

最佳的裂缝控制性能，抗疲劳和抗冲击性能，确保混凝土寿命更长，维修和养护更少  
The best crack control, anti-fatigue and anti-impact performance, prolonging the concrete life, less maintenance is required

取代或部份取代传统钢筋网，节省钢筋绑扎和定位工时费用  
Replacing or replacing part of the traditional steel mesh to save the costs of reinforcement binding and positioning

收缩缝间距加大或取消，节省切割和后期维护费用，切缝处美观整齐  
Less or no expansion joints, saving cutting and maintenance costs, and cutting seam is beautiful and neat

可使用大型摊铺机施工，大幅度提高施工速度，缩短施工周期  
Large scale paver can be used to improve the application speed and shorten the construction period

掺量低  
Low consumption

与普通混凝土同样的搅拌及施工，无需添加设备  
The same mixing and application as ordinary concrete, requiring no additional equipment



## COEPRO 钢纤维的优点 / Advantages

原料采用钢纤维专用拉丝材，确保高抗拉强度和高品质  
The raw material adopts the special wire drawing material to ensure high tensile strength and high quality

进口钢纤维成型生产线和拉丝设备，确保极小的产品公差  
Imported production line and wire drawing equipment to ensure the minimal product tolerances

进口胶水确保粘排钢纤维分散性好，无结团裸露现象  
Imported glue to ensure the good dispersion of sticky steel fiber, no clustering and exposure

防止和减少混凝土早期收缩裂缝  
Prevention and reduction of early shrinkage cracks of concrete

提高混凝土抗裂性和降低荷载裂缝宽度  
Improving crack resistance of the concrete and reducing the width of load crack

提高混凝土抗拉强度  
Improving tensile strength of the concrete

提高混凝土弯拉疲劳强度  
Improving bending fatigue strength of the concrete

提高混凝土抗剪强度  
Improving shear strength of the concrete

提高混凝土抗冲击强度及抗振动能力  
Improving impact strength and vibration resistance of the concrete

提高混凝土耐磨强度及耐久性  
Improving abrasion resistance and durability of the concrete

提高混凝土抗收缩及徐变能力  
Improving shrinkage resistance and creep ability of the concrete

提高混凝土抗高温能力  
Improving high temperature resistance of the concrete

改变钢筋混凝土电化锈蚀状态，对防止钢筋锈蚀有利  
Changing the electrochemical corrosion state of the reinforced concrete and preventing corrosion of the steel bar

## COEPRO 钢纤维主要产品 / Main products

产品 Product	直径 Diameter	长度 Length	长径比 L / D Ratio	抗拉强度 Tensile Strength	包装 Package
6080 G	0.75 mm	60 mm	80	1100~1400 MPa	20kg / 袋
5080 G	0.62 mm	50 mm	80	1100~1400 MPa	20kg / 袋
4065 G	0.62 mm	40 mm	65	1100~1400 MPa	20kg / 袋
3565 G	0.55 mm	35 mm	65	1100~1400 MPa	20kg / 袋

