



# Tengzhou Star Smith Metal products Co.,Ltd



 滕州思达施密丝金属制品有限公司 TENGZHOU STAR SMITH METAL PRODUCTS CO., LTD. 滕州西格斯环保设备有限公司 TENGZHOU TUX ENVIRONMENTAL EQUIPMENT CO., LTD.  
滕州思达微资源环保设备有限公司 TENGZHOU STAR MICRO RESOURCE ENVIRONMENTAL EQUIPMENT CO., LTD. 滕州世达金属制品有限公司 TENGZHOU SHIDA METAL PRODUCTS CO., LTD.



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# Company Profile

Tengzhou Star Smith Metal Products Co., Ltd. was founded in 2011. The company is located in Tengzhou Economic Development Zone, Shandong province. It is a joint-stock enterprise, the company has a total investment of 300 million Yuan, the company is one of the top three domestic steel fiber enterprises in the professional production of glued steel fiber.

The company mainly produces: glued steel fiber, copper coated steel fiber, loose steel fiber and etc. With annual production scale of 10000 tons of concrete steel fiber, It has a full set of production equipment and production technology under independent research and development, and has won several national patents.







# What is steel fiber?



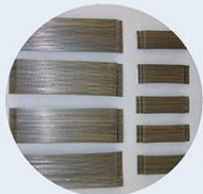
SD 18-35



SD 55



SD 75



SD 90



Steel fiber concrete is a new type of building composite material with excellent performance. Steel fiber can resist crack, strengthen and toughen concrete, thus the tensile strength, bending strength and shear strength of steel fiber concrete are significantly improved compared with common concrete, and its impact resistance, fatigue resistance, toughness and durability after crack are also greatly improved.

In recent years, steel fiber concrete has been applied to pavement, bridge deck, airport pavement, industrial building ground, rigid waterproof roof, tunnel lining, railway sleeper, pile foundation, house structure, water conservancy, construction, transportation and railway engineering fields at domestic and abroad.



# Steel Fiber Series

## Hooked End Loose Steel Fiber



This kind of steel fiber is a high-performance steel fiber, which can improve the impact resistance and fatigue resistance of concrete; improve the impermeability of concrete. Because of its high tensile strength, good toughness, and low price, it is often used as a substitute for steel fiber.

# Specifications and packages of hooked end loose steel fiber

Products	Diameter	Length	L/D ratio	TS	Type	Package
SDS-05030	0.50mm	30mm	60	1000MPa	Loose	20kg/bag 1ton/Bulk bag
SDS-05530	0.55mm	30mm	55	1000MPa	Loose	20kg/bag 1ton/Bulk bag
SDS-05035	0.50mm	35mm	70	1000MPa	Loose	20kg/bag 1ton/Bulk bag
SDS-05535	0.55mm	35mm	64	1000MPa	Loose	20kg/bag 1ton/Bulk bag
SDS-07550	0.75mm	50mm	67	1000MPa	Loose	20kg/bag 1ton/Bulk bag
SDS-07560	0.75mm	60mm	80	1000MPa	Loose	20kg/bag 1ton/Bulk bag

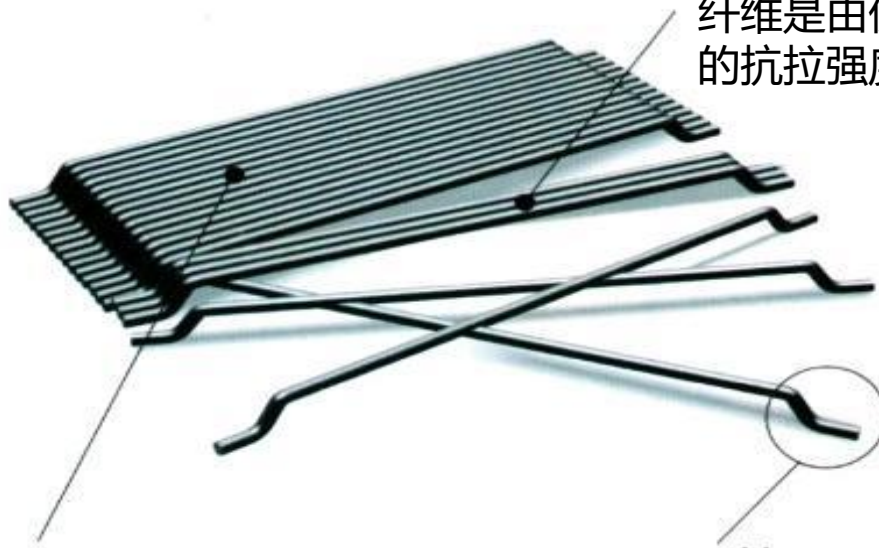


# 高强度胶连成排钢纤维

## SD7560

The raw material is high quality cold drawn fiber, to ensure that high tensile strength and minimal tolerance.

纤维是由优质硬拉钢丝制成，确保有较高的抗拉强度和极小的公差



The glued steel fiber in bulk ensure the mixing fast and convenience and the distribution homogeneous

纤维的胶合成捆能保证快速和方便地进行拌合，并完全的均匀分布。

During pulling from the cement, the steel fiber hooked-end is deformation slowly, it is considered to be the best anchorage force.

在拔出过程中可缓慢地变形，带钩端通常认为是最佳的锚固形成。





# 高强度胶连成排钢纤维

## SD7560

### Glued hooked end steel fiber

The steel fiber is made of high quality cold drawn wire, which could make sure the steel fiber has high tensile strength and minimal tolerance.

The glued steel fiber in bulk ensure the mixing fast and convenience, and the distribution homogeneous.

During pulling from the cement, the steel fiber hooked-end is deformation slowly. it is considered to be the best anchorage force.



# Specifications and packages of hooked end glued steel fiber

<b>Products</b>	<b>Diameter</b>	<b>Length</b>	<b>L/D ratio</b>	<b>TS</b>	<b>Type</b>	<b>Package</b>
SDS-05030	0.50mm	30mm	60	1000M Pa	Glued	20kg/bag 1ton/Bulk bag
SDS-05530	0.55mm	30mm	55	1000M Pa	Glued	20kg/bag 1ton/Bulk bag
SDS-05035	0.50mm	35mm	70	1000M Pa	Glued	20kg/bag 1ton/Bulk bag
SDS-05535	0.55mm	35mm	64	1000M Pa	Glued	20kg/bag 1ton/Bulk bag
SDS-07550	0.75mm	50mm	67	1000M Pa	Glued	20kg/bag 1ton/Bulk bag
SDS-07560	0.75mm	60mm	80	1000M Pa	Glued	20kg/bag 1ton/Bulk bag
SDS-09060	0.90mm	60mm	67	1000M Pa	Glued	20kg/bag 1ton/Bulk bag



# Steel Fiber Series

## Copper Coated Straight Steel Fiber



### Copper coated steel fiber

The copper coated steel fiber produced is a new type of ultra-high-strength concrete reinforcement material. The diameter of the steel fiber is uniform, the length is uniform, and the surface is smooth and straight without bending.

# Specifications and packages of straight micro steel fiber

Products	Diameter	Length	L/D ratio	TS	Type	Package
SDS-02013	0.20mm	13mm	65	3080MPa	<b>Straight</b>	20kg/bag 1ton/Bulk bag
SDS-02213	0.22mm	13mm	59	3080MPa	<b>Straight</b>	20kg/bag 1ton/Bulk bag





# Steel Fiber Series

## Copper Coated Micro Steel Fiber



# Specifications and packages of micro steel fiber

Products	Diameter	Length	L/D ratio	TS	Type	Package
SDS-1823	0.18-0.23mm	13±1mm	60-80	2850MPa	twisted	20kg/bag 1ton/Bulk bag
SDS-1835	0.18-0.35mm	13±1mm	60-80	2850MPa	twisted	20kg/bag 1ton/Bulk bag





# Applications



## Application of steel fiber

construction	expressway
Application	Road pavement
Specifics	0.9*60/0.75*60
Dosage	40-60kg/m3



# Applications



## Application of steel fiber

construction	Airport Pavement
Application	Floor
Specifics	0.55*35/0.5*30/0.6*3 5/0.75*50/0.75*60/0. 9*50/0.9*60
Dosage	20-40kg/m <sup>3</sup>





# Applications



Application of steel fiber	
construction	Viaduct
Application	Road pavement
Specifics	0.9*60/0.75*60/0.75*50/0.9*50
Dosage	40-60kg/m3



# Applications



Application of steel fiber	
construction	Tunnel
Application	Tunnel jetting
Specifics	0.5*30/0.55*35/0.6*35
Dosage	30-60kg/m3



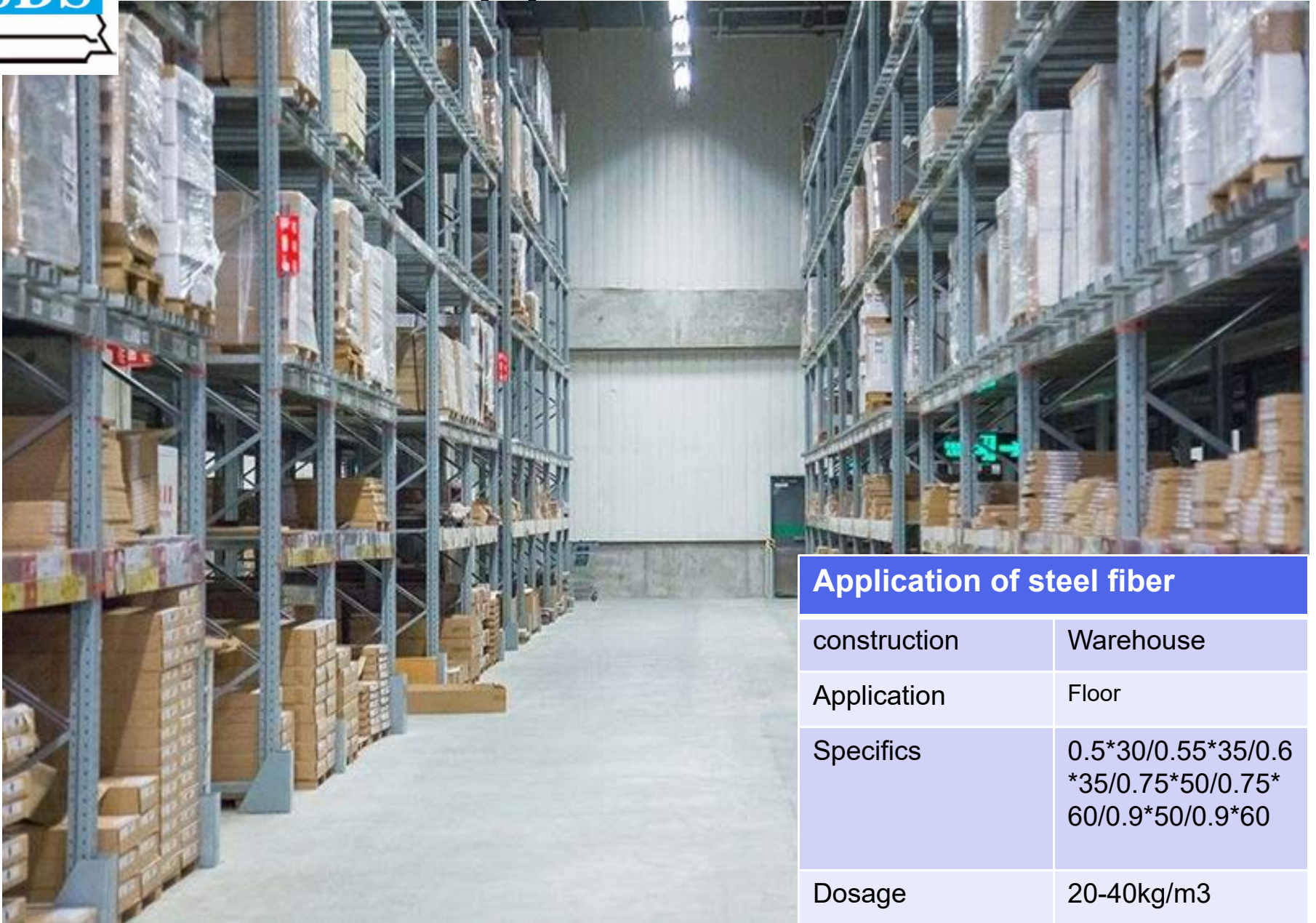
# Applications



Application of steel fiber	
construction	Railway
Application	Prefab sleeper
Specifics	0.9*60/0.75*60/0.75*50/0.9*50
Dosage	40-120kg/m3



# Applications



Application of steel fiber	
construction	Warehouse
Application	Floor
Specifics	0.5*30/0.55*35/0.6*35/0.75*50/0.75*60/0.9*50/0.9*60
Dosage	20-40kg/m3



# Applications

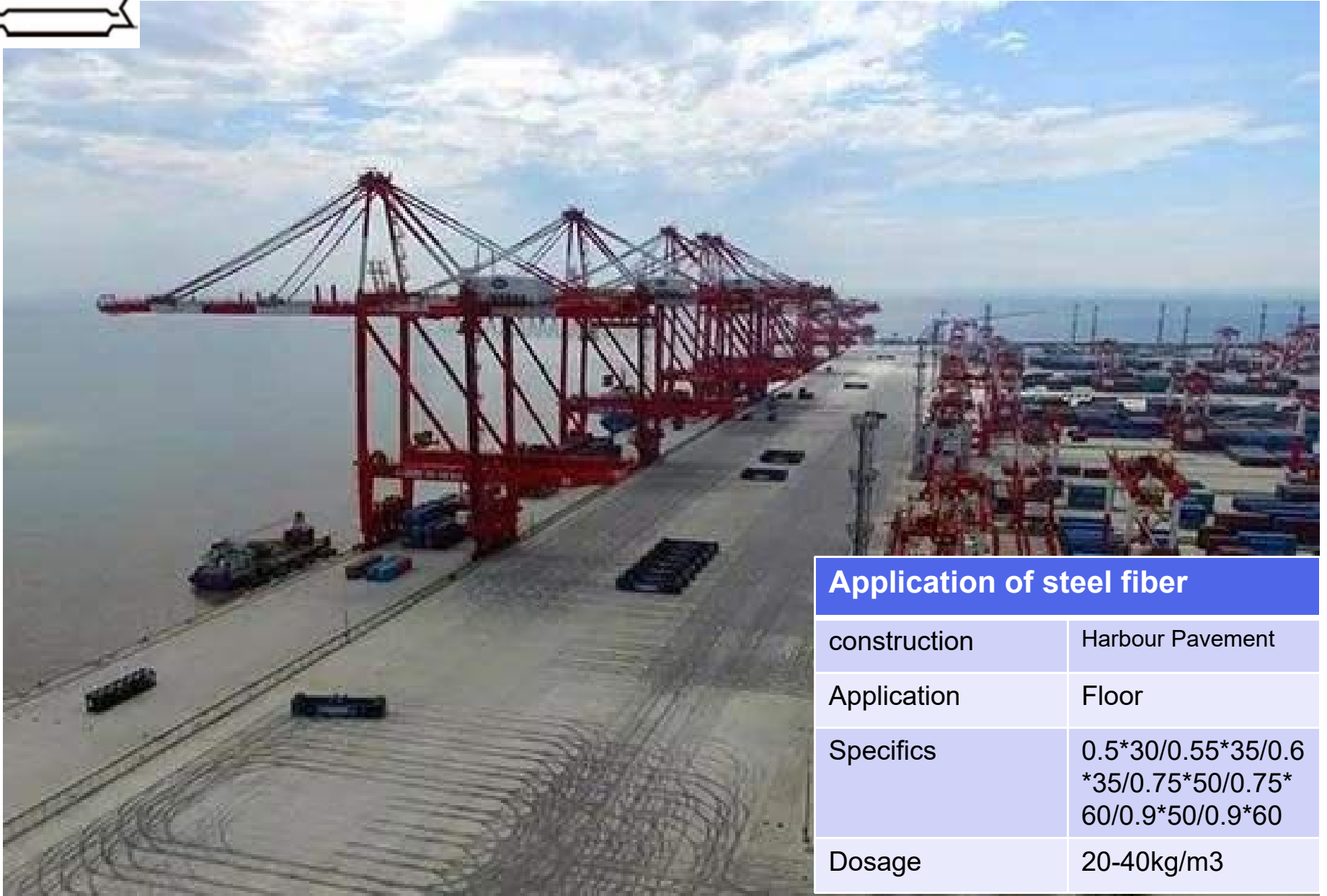


## Application of steel fiber

construction	Parking Lot
Application	Floor
Specifics	0.5*30/0.55*35/0.6*35
Dosage	20-40kg/m <sup>3</sup>



# Applications



## Application of steel fiber

construction	Harbour Pavement
Application	Floor
Specifics	0.5*30/0.55*35/0.6*35/0.75*50/0.75*60/0.9*50/0.9*60
Dosage	20-40kg/m <sup>3</sup>



# Applications

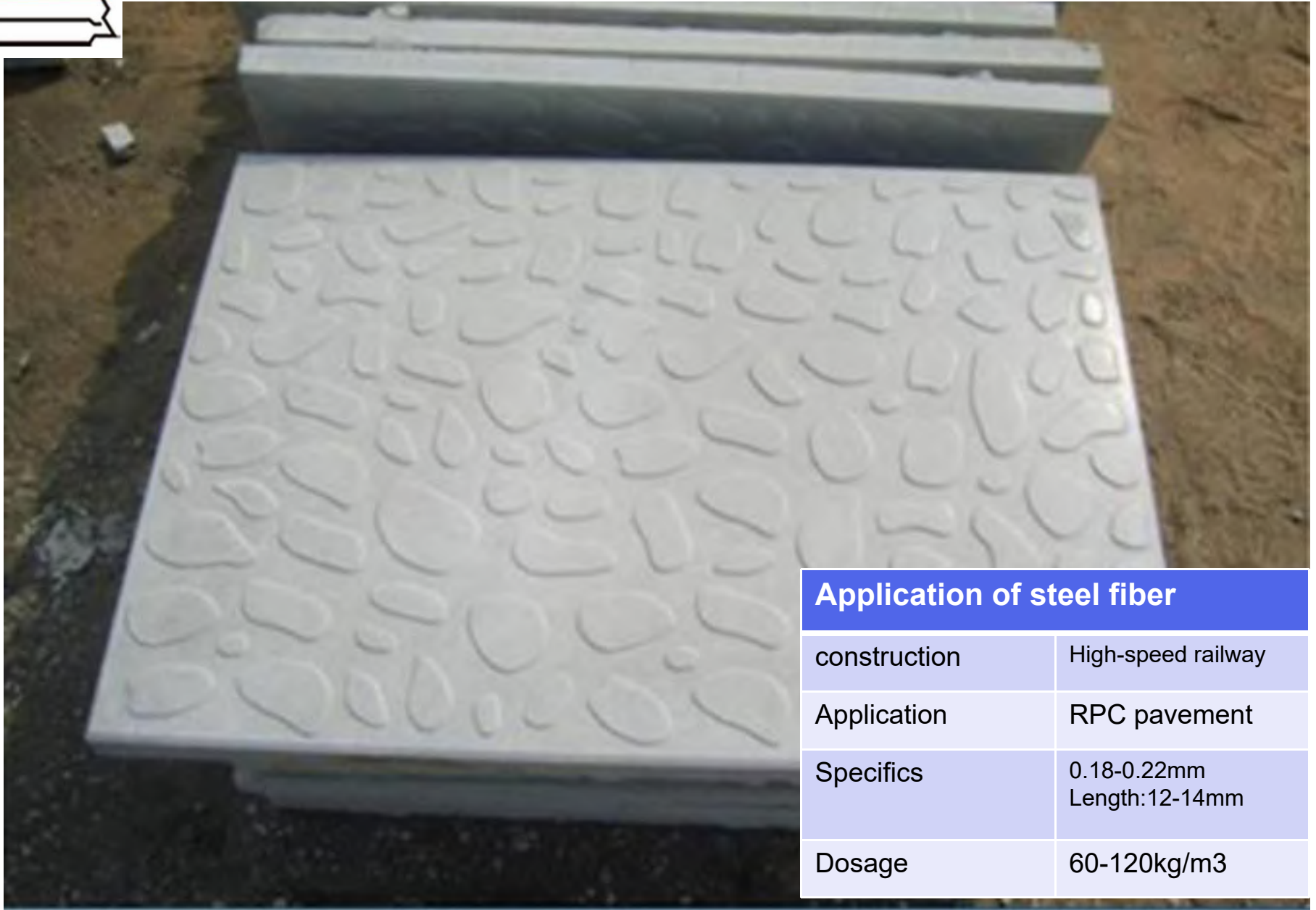


## Application of steel fiber

construction	Harbour Pavement
Application	Floor
Specifics	0.5*30/0.55*35/0.6 *35/0.75*50/0.75* 60/0.9*50/0.9*60
Dosage	20-40kg/m <sup>3</sup>



# Applications



Application of steel fiber	
construction	High-speed railway
Application	RPC pavement
Specifics	0.18-0.22mm Length:12-14mm
Dosage	60-120kg/m3





# Applications



## Application of steel fiber

construction	<b>UHPC</b>
Application	Bridge
Specifics	SD2013 SD2213
Dosage	1600kg/m <sup>3</sup>



# Project and cooperation



Tengzhou Eastern Steel Cord Co.,Ltd.

滕州东方钢帘线厂



# Project and cooperation



Petrochina Ningxia Petrochemical Co.,Ltd.

中国石油宁夏石化公司



# Project and cooperation



Huaian Airport

淮安机场



# Project and cooperation



Hangzhou Deshengba Station

杭州德胜坝



# Project and cooperation



Tianjin large launch vehicle project

天津大运载火箭项目



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