



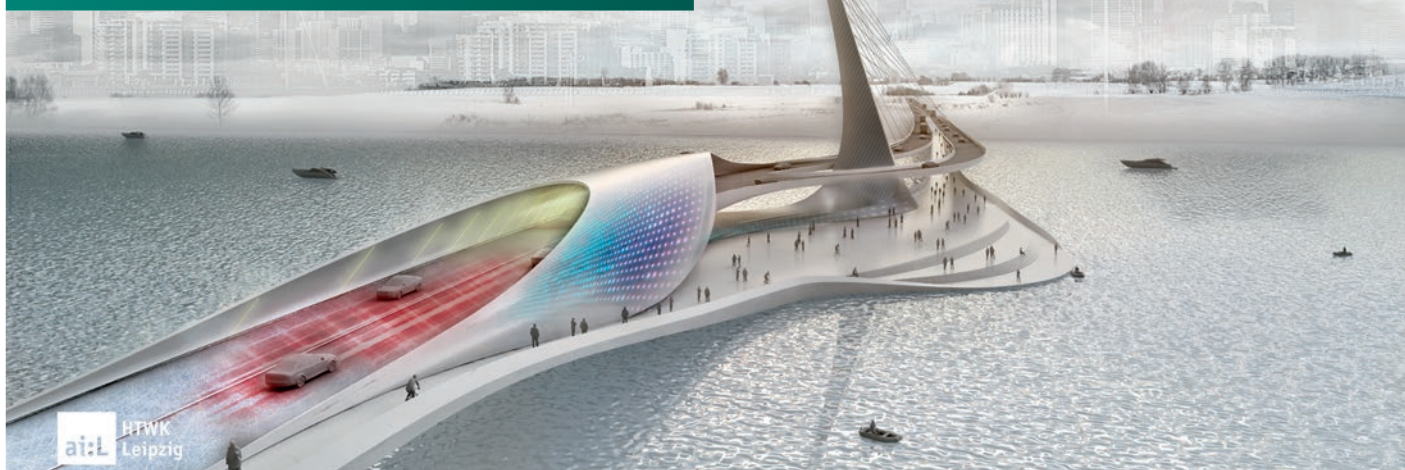
KARL MAYER

WE CARE ABOUT YOUR FUTURE

TECHNICAL TEXTILES
产业用纺织品

TEXTILE REINFORCED CONCRETE (TRC)

纺织增强混凝土(TRC)



New opportunities with textile reinforced concrete

纺织增强混凝土提供发展新机遇

Advantages

With high-performance textile reinforcements, the building industry has materials available today that are suitable for constructing thin, slim and lightweight concrete building elements, which conserve resources and simultaneously exhibit high permanence.

- Weight reductions and material saving
- Preservation of resources
- High level of design freedom
- Efficient renovation / reconstruction

您的优势

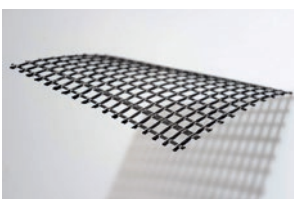
如今, 建筑业可以利用高性能纺织增强材料获得轻薄、轻量化的混凝土建筑组件, 它有助于节约资源, 同时拥有较高的性能。

- 减轻重量, 节约材料
- 保护资源
- 高水平的设计自由度
- 高效的翻修/改造



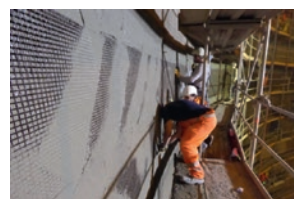
- 1 Bridge, Albstadt-Ebelingen / Germany
桥梁, Albstadt-Ebelingen / 德国
- 2 Bridge, Naila / Germany
桥梁, 奈拉 / 德国
- 3 Reconstructed barrel vault, Zwickau / Germany
重建穹窿, 茨维考 / 德国
- 4 Cladding panel TU Dresden, Schumannstrasse / Germany
德累斯顿工业大学的外墙板, Schumannstrasse / 德国
- 5 'SWING' rocking chair, Paulsberg design agency / Germany
'SWING'摇椅, Paulsberg设计公司 / 德国
- 6 Carbon concrete pavilion 'TexLeS' of TU Chemnitz, Stadlerstrasse 14A / Germany
凉亭'TexLeS', Stadlerstrasse 14A / 德国

Textile Reinforced Concrete (TRC) consisting of 纺织增强混凝土(TRC)包括



- a) a textile reinforcement
- non-corrosive reinforcement
 - light and thin
 - excellent tensile strength
 - made of high-performance materials (e.g. AR glass, carbon, basalt fibres, etc.)
 - sturdy and resistant to displacement
 - flexible formability
 - easy to handle and cut

- a) 纺织增强材料
- 不会生锈的增强材料
 - 轻薄
 - 杰出的拉伸强度
 - 由高性能材料制成 (例如耐碱玻璃纤维, 碳纤维, 玄武岩纤维等)
 - 牢固且不会发生位移
 - 灵活成形
 - 便于处理和切割



- b) a fine-grain concrete
- very dense matrix
 - high tensile and compressive strengths
 - excellent load-carrying capacity
 - good processability
 - strong internal cohesion for sprayable mixtures
 - good adhesion to the reinforcement structure and concrete subbase (e.g. old concrete)

- b) 细颗粒混凝土
- 非常密实材料
 - 优良的拉伸和压缩强度
 - 强大的负载能力
 - 良好的加工性能
 - 强劲的内聚力, 可应用喷涂型材料
 - 与增强结构和混凝土基层 (例如原先的混凝土) 产生牢固的粘合力