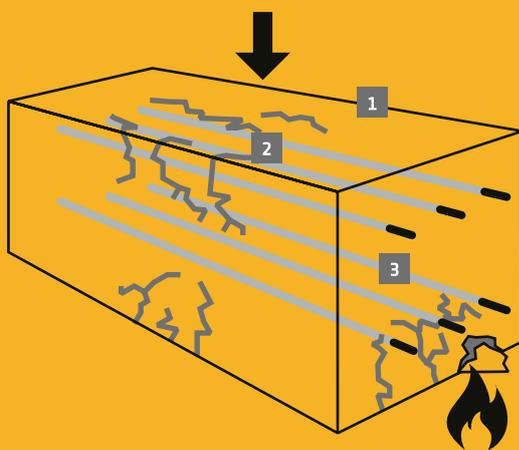


## INCREASED CONCRETE PERFORMANCE WITH SIKA'S REINFORCING FIBERS

Urban construction requires high-strength concrete and reinforcement solution for demanding projects like highrise buildings or infrastructure projects where the concrete has to withstand high pressures. In recent years, Sika has expanded its presence in the fast-growing concrete reinforcing fiber market, with several acquisitions and investments in new production lines.

CONVENTIONAL CONCRETE REINFORCED WITH REBARS



1

**Fiber-reinforced concrete** is less prone to cracking than **conventional concrete**. However, if fiberreinforced concrete does crack, the cracks are generally shorter and thus less of a threat to component stability.

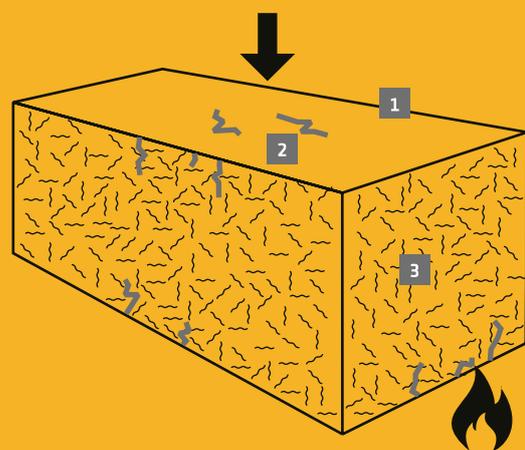
2

Fiber-reinforced concrete has a greater tensile strength. Furthermore, the fibers make the concrete more impact-resistant.

3

Fibers provide protection in a fire. For example, temperatures in a tunnel fire can exceed 1,000 degrees Celsius. Under these circumstances conventional concrete will spall, which reduces its load capacity. Fibers hold the concrete together.

FIBER-REINFORCED CONCRETE



**5%**

Just five percent of installed concrete contains fibers. Experts anticipate that concrete reinforcing fibers will usher in the same magnitude of progress in construction as admixtures have since their introduction to the market.

**2.5x**

Studies have shown that adding fibers to concrete increases flexural strength 2.5-fold. Fibers also provide improved corrosion protection, fire resistance, and extend service life.

**7.2%**

Because of its greater efficiency, fiber reinforced concrete is set to grow at an estimated average of 7.2 percent a year in the period between 2015 and 2020. The advantages of using fibers include a reduced site workload because less rebar needs to be used.

**SIKA'S FIBER INVESTMENTS  
2013-2018**

- 2013 Acquisition of Radmix, the leading supplier of structural fibers for the Australian mining industry
- 2016 Acquisition of FRC Industries in the USA FRC offers a full line of quality synthetic fibers
- 2017 In Germany, Sika opens the 1<sup>st</sup> production line in Europe. The new fiber type SikaFiber® Force-60 is ready for rollout
- 2018 New production line in Peru for synthetic fibers in preparation to cover demand in Latin America

GLOBAL FIBER MARKET

&gt;CHF 800 M

ALL TYPES OF FIBERS INCLUDED

**FURTHER INFORMATION**

- [Movie - SikaFiber® reinforced concrete](#)
- [Learn more about concrete fibers](#)

**SIKA AG**

Zugerstrasse 50  
6341 Baar  
Switzerland  
[www.sika.com](http://www.sika.com)