

TioCem<sup>®</sup> with TX Active<sup>®</sup>  
– Cement against poor  
quality air



**HEIDELBERG**CEMENT



Climate change, smog and CO<sub>2</sub> are the decisive subjects of our time. With HeidelbergCement's TX Active® you can now make a contribution to environmental protection.

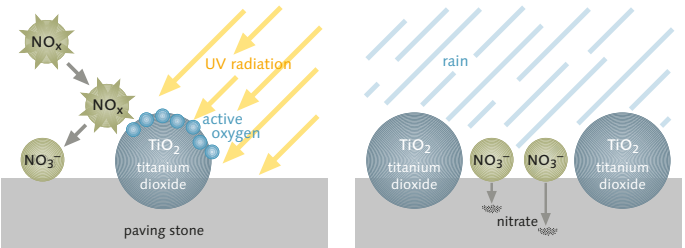


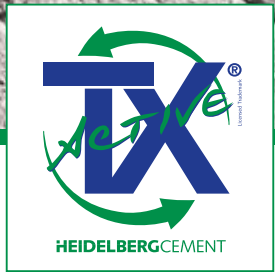
HeidelbergCement developed a building material, which reliably and consistently eliminates air pollutants. The TX Active technology effects the decomposition of nitrogen oxides, which are the main reasons for smog in our cities and thus provides a benefit for quality of life and a cleaner environment for our children and all following generations.

### How smog becomes fresh air

A livable environment is of high importance for all of us. We took nature as a model. The TX Active principle functions similarly to that of photosynthesis: plants convert CO<sub>2</sub> into oxygen by the action of light. Through daylight, hazardous nitrogen oxides are converted into neutral components. Characteristic feature: the process is durable and regenerative. TioCem with TX Active is the solution against increasing waste gas pollution in our cities. As TioCem is aligned to standard cements regarding processing and quality, it is versatile and usable without further measures. Invest in a clean future – for yourself, your family and for the environment.

### Reaction process of NO<sub>x</sub> reduction by TioCem with TX Active®





## TX Active® – licensed guarantee for optimum results

### **TioCem with TX Active® – what does it mean?**

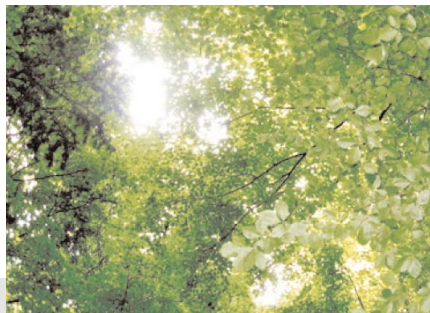
TX Active is a sign of quality for the photocatalytic activity of building materials. TX Active is available all over Europe. In cooperation with a license partner, strict standards have been developed for this purpose. TX Active stands for durable photocatalytic functionality of the finished concrete products.

### **Trust is good, we rely on control**

Innovations only become part of the everyday life and normality, if high quality standards are defined for all steps of the process. In addition to the already high requirements placed upon cement and concrete defined in numerous standards and guidelines, the TX Active® trade mark is the guarantee for photocatalytic activity. The photocatalytic functionality is already controlled during production of TioCem.

In order to make sure that not only the cement but also the finished products meet the high requirements of TX Active, HeidelbergCement also controls the photocatalytic activity of the finished products on site.

® = TX Active is a registered trademark  
under license





**The most important fields of application  
of TioCem® with TX Active®:**

- Roofing tiles
- Paving stones
- Road surfaces
- Noise - and view protection elements
- Façade elements
- Safety barriers

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