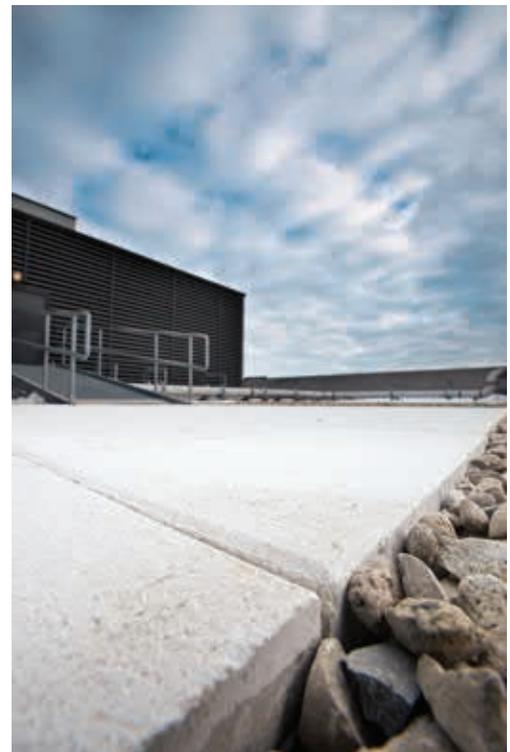
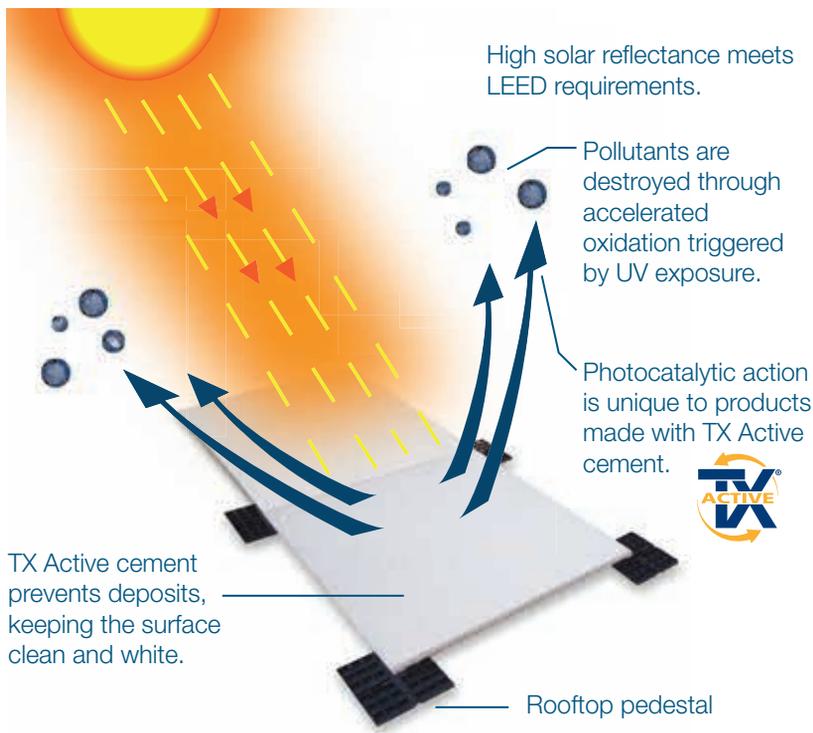


### SmartCast® Clean - the cleaner and greener rooftop paving solution.

Navascape by Permacon is pleased to offer the most advanced sustainable rooftop paving solution available. *SmartCast Clean* is created using a unique formulation of special aggregates, admixtures and TX Active® photocatalytic cement. The result is a paving product that is highly solar reflective, reduces pollution and is self-cleaning, so that it will continue to provide environmental benefits for future generations.



### Keeping it cool - Solar Reflectivity

The increased average temperature of urban areas over surrounding rural areas - referred to as the urban heat island effect - is caused by impermeable surfaces such as roofs and pavement that absorb heat from the sun. *SmartCast Clean* uses white cement and aggregates to achieve a bright white surface colour that is highly reflective, with average test results of **86.8 SRI**. This reflective surface reduces the amount of heat energy absorbed from the sun which helps reduce the heat island effect, conserve energy and improve air and water quality.

### Keeping it green - Pollution Reduction

Photocatalysis is a natural phenomenon during which light energy is used to break down organic and inorganic pollutants, converting them to harmless salts. *SmartCast Clean* containing TX Active photocatalytic cement speeds up this natural process, significantly reducing harmful atmospheric pollutants including nitrogen oxides, sulfur oxides, volatile organic compounds (VOC's), urban smog and other industrial threats to health and air quality. The catalytic ingredient is not consumed during the oxidation process and will continue to perform with minimal maintenance as long as the tiles receive UV light.

## Keeping it clean - Self-Cleaning

The photocatalytic properties of *SmartCast Clean* prevent organic and inorganic pollutants from accumulating on the surface of the tiles, keeping them clean and white and retaining their high reflectivity and photocatalytic properties indefinitely with very little maintenance required.

## Making a statement - A Sustainable Future

Navascape aims to be the leader in the provision of sustainable products and services to the building industry. *SmartCast Clean* contributes to the future of green building with increased eligibility for LEED® credits over traditional building materials in the following categories:

- **Sustainable Sites** - Certified laboratory tests of the solar reflective properties of *SmartCast Clean* delivered results of **SRI 86+**, far exceeding LEED requirements for low slope roofing (SRI≥78). In addition, due to their self-cleaning abilities, *SmartCast Clean* tiles are designed to maintain a high SRI value for an extended period of time.
- **Material & Resources** - *SmartCast Clean* tiles contain supplementary cementitious materials such as slag and flyash, that qualify as recycled material under LEED.
- **Regional Materials** - Wherever possible, Navascape uses locally sourced raw materials such as gravel and sand. In addition, our manufacturing facility in Cambridge, Ontario is centrally located within LEED requirements for most of Ontario and Quebec.
- **Durable Building** - *SmartCast Clean* tiles used in rooftop applications have a much longer life expectancy than traditional roofing options. Outstanding test results in compressive and flexural strength mean that tiles will last as long as the buildings they cover.
- **Innovation & Design** - *SmartCast Clean* tiles show exceptional performance in aged reflectance, air pollution abatement, durability and the potential for reuse/reinstatement. Maintenance of roof membrane underneath tiles is easy by simply removing the tiles in the affected area and replacing them after the necessary maintenance has been performed.

Navascape by Permacon is committed to providing sustainable solutions today for the benefit of tomorrow. *SmartCast Clean* provides conscientious designers, builders and developers with a truly sustainable rooftop paving solution for any new or retrofit projects, assisting them to create greener buildings and sustainable structures for future generations. It's smart to be green!



In Canada	CSA A231.1 (latest revision)
Flexural Strength	Minimum average of 3 slabs to be 4.5 MPa with no individual unit below 4.0 MPa.
Durability	Average loss of mass of 3 samples to be less than 300 g/m <sup>2</sup> of surface area after 28 freeze-thaw cycles or less than 800 g/m <sup>2</sup> of surface area after 49 freeze-thaw cycles

600x600 Module	
600 x 600 x 50 mm (23.62 x 23.62 x 1.97 in)	
pcs:	22/bdl
area:	3.87 ft <sup>2</sup> /pc 85.1 ft <sup>2</sup> /bdl
	0.36 m <sup>2</sup> /pc 7.9 m <sup>2</sup> /bdl
wt:	93.0 lbs/pc 2046 lbs/bdl
	42.2 kg/pc 929 kg/bdl

Additional sizes and thicknesses available on request. Minimum order quantities apply. Contact your Navascape Representative for details.

[navascape.ca](http://navascape.ca)

Call 1 800 265 6496 for more information.

