



## Benefits of Lapitec on Environmental Air Quality

With global initiatives worldwide prioritizing environmental health, buildings and their associated materials are facing backlash involving sustainable practices and overall material health. Many products emit pollutants throughout their lifetime, off-gassing harmful substances such as VOCs and formaldehyde. A surfacing material that does not emit pollutants but also helps improve air quality is a powerful tool for designers and homeowners alike.

NOx is widely known as an outdoor air pollutant. Combustion of any sort can cause NOx emissions, such as driving a car and operating ordinary factories. These emissions are known to irritate many of the body's vital systems and cause catastrophic events like smog and acid rain.

Is there a surface that could help clean the air? Lapitec, suitable for flooring, walls, and countertops indoors, as well as cladding, paving, and many other outdoor applications, can do just that.

Lapitec's integral Bio-Care technology has been proven to break down NOx through the use of Titanium Dioxide (TiO<sub>2</sub>) and its reaction with visible light. TiO<sub>2</sub> has been widely researched and is used as a powerful compound that serves as a photocatalyst, reacting with light to break down these pollutants. Lapitec, from its initial production, sought to incorporate this technology to create a healthy interior surface. This powerful combination not only helps clean the air, but it can also kill and break down e-coli and staphylococcus bacteria on its surface. In six hours, 100m<sup>2</sup> of Lapitec purify the air by degrading the same amount of pollutants that 28 trees handle in one day. When used in an exterior application, Lapitec has a profound effect on its surrounding environment.

Not only is Lapitec the highest performing man-made surface available, it also creates a healthier environment through the use of Bio-Care.

## Works Cited

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