

# Titanium Dioxide – A Boon to Contravene the Increasing Levels of Air Pollution in Indian Cities - A Review

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**Abstract:** *The Construction Industry has always been rightly blamed for working against the environment because of the concretization activity. So civil Engineers and architects around the world are continuously investigating and working on different construction materials for improving their properties and making them environmentally sustainable. Along with concretization the major cause of pollution are the petrol and diesel vehicles emitting  $\text{NiO}_2$  in the environment. Hence a very important question is whether we have a solution to this problem? Scientists around the world are finding solutions to this everlasting question. One such material being used is Titanium dioxide which has the ability of absorbing nitrogen dioxide from the environment. As per the studies it is found that the effect of  $\text{TiO}_2$  is more effective in the presence of sun. Already this technique is being used in some of the countries like Mexico, China, Germany etc. It is used in different materials like tiles and paints. As a photo catalyst, titanium dioxide can be added to paints, cements, windows and tiles in order to decompose environmental pollutants. With a legacy of 100 years of safe commercial use, titanium dioxide is only going to become more vital as our environment faces greater challenges from a growing population. Smog also causes a lot of diseases which can be fatal [1]*

**Keywords:** Smog, Pollution, Construction, Building, Sustainability, Nitrogen Dioxide, etc.

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