Eco-Activ® Roof Membranes
Featuring Noxite® Depolluting Granules

Depolluting Roof Membranes
Of the countless atmospheric pollutants released daily, there is one that you can help reduce simply by choosing the right roof membrane. Nitrous oxides (NOx) are irritating gases that are harmful to health, facilitate the formation of low-level ozone, and increase the greenhouse effect. Neutralizing NOx in the air we breathe can be accelerated with Siplast Eco-Activ Roof Membranes surfaced with Noxite Granules.

The pace at which NOx pollutants are increasing, primarily due to transportation and industry, exceeds the pace of natural NOx degradation. Siplast Noxite Granules increase the speed of NOx degradation significantly, transforming harmful molecules into a non-hazardous nitrate salt.

How does the technology work? Siplast Eco-Activ Roof Membranes are surfaced with roofing granules treated with Noxite. Noxite, which is based on titanium dioxide (TiO2) in its anatase form, is a photocatalyst. A photocatalyst reacts in the presence of UV light. When sunlight hits an Eco-Activ roof, Noxite absorbs UV light and essentially behaves like a photovoltaic cell, generating electrical charges that accelerate the transformation of NOx molecules into harmless molecules. By-products from the decomposition of NOx molecules are carried away by rainwater. These by-products have no measurable impact on the quality of run-off water.

How do we know Noxite works? • Siplast has achieved a UL Environment claim validation for Eco-Activ Roof Membrane’s ability to remove an estimated 417-4,143 G NOx per roofing square over 20 years. • A study conducted by the Department of Analytical Chemistry at Munich Technical University confirmed the catalytic effect of Noxite Roofing Granules. Other references include: CSTB Pass’ Innovation Final Report: No.2009-016, for Eco-Activ Waterproofing, and Characterization of Gas Polluted Phase in Contact of Materials Made by Icopal, CNRS. • The principle of photocatalysis of titanium dioxide was first demonstrated in the 1970s. Since then, other building products manufacturers have adapted this technology for their products, including concrete and tile. Siplast is the first commercial roofing manufacturer in North America to do so.

What’s the performance history of Eco-Activ Membranes? Eco-Activ is the designation given to any Siplast cap sheet surfaced with Noxite granules, including time-tested Paradiene 30, Paradiene 40, Parafor 50, and Parafor 30 finish plies. The composition of the sheets is unchanged. So you can be assured of the same high performance waterproofing you have come to expect from Siplast Engineered Roof Membranes. All FM Approvals, Underwriters Laboratories Classifications, and regional and local approvals for Siplast cap sheets surfaced with mineral granules apply to Siplast Eco-Activ sheets.

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* Based on studies using estimated conditions (sunlight, humidity, and NOx) for Los Angeles, and mileage of the average U.S. household vehicle (11,300 miles).