



Italcementi Group's innovation for the *building community*

Italcementi Group, the top global building materials manufacturer with over 5 billion annual sales and 23,000 employees in 22 countries, has always been one of the most important players in innovation with the development of new products and solutions for building well.



i.nova is the company platform for innovation, research and the building community, a veritable container of innovation dedicated to the search for new ecological materials at the disposal of architects and designers.

At the heart of Italcementi Group's innovation are the laboratories based in Bergamo and Paris, where the daily work of about 170 researchers, including chemists, geologists and engineers has made it possible to file over 60 patents in the last decade. Italcementi Group's new research centre, known as **ITCLab** - Innovation and Technology Central Laboratory, is rising on the Kilometro Rosso site in Bergamo. The new construction will boast a surface area of 11,000, of which over 7,000 m² totally devoted to research laboratories.

Italcementi Group has developed a network of international scientific cooperation consisting of research centers, universities and companies of the building and building material industry. The current network includes 10 external centers, 30 companies and 26 Italian, European and non-European universities.

In addition to the "transparent cement", Italcementi Group has also developed another two eco-compatible products. In the energy saving area, a "**thermal cement**" for the production of concretes with very low thermal conduction coefficients, thanks to the presence of vitreous aggregates obtained from recycling materials such as TV and computer screens, which would otherwise be difficult to recover. The "thermal cement",

designed both for cladding exteriors and for vertical internal walls and floors, helps to keep buildings cool in the summer and warm in the winter, with an obvious saving in terms of CO₂ emissions and heating bills. It is expected to be used for the first time in the 100K€ House designed by the architect Mario Cucinella as a model of sustainable housing architecture.

Italcementi Group's long tradition of innovation includes **TX Active**[®], one of its best and top-rated products, that is world renowned and marketed as the '**smog-eating cement**'. The materials in this range take advantage of photocatalytic properties which, when applied to any cementitious material, are capable of abating air pollutants thanks to the action of light.