

Pavement Porcelain

by Jacques Sénant / 2018-06-19 16:48:47 / France / 6093 / FR



Year of commitment : 2016

Sustainable mobility : Roads

Circular economy and waste management : Reuse, Optimization of resources



30 000 €

Builder

Colas Sud Ouest

Manager / Dealer

Limoges Métropole

GENERAL INFORMATION

In collaboration with the services of Limoges Métropole, a hot mix consisting partly of recycled and crushed porcelain has been put in place.

The first project consists of a pedestrian plateau and the second of a larger street (5000m²). Since other projects were carried out especially in Creuse.

The initial idea was to find clear, local materials to incorporate them in a coating in order to eventually reduce the intensity of public lighting and thus save money. The Limoges region is still endowed with porcelain manufacturers so we naturally turned to industrialists to recover their waste and offer them a second life to materials.

Today we collaborate with several porcelain manufacturers including Bernardaud, La Fabrique, Royal Limousin, Deshoulières etc ...

While waiting for the first results concerning the reduction of the luminous intensity, we can say that the aesthetic side has already convinced many of our customers.

Progress Status

In progress

Data Reliability

Self-declared

Funding Type

Public/Private Partnership

Website Enterprise / Infrastructure

<http://www.colas-france.fr/filiales/colas-sud-ouest>

Sustainable Development

Attractiveness :

From table service to the road.

Limoges, the French capital of porcelain, indirectly produces many scrap ceramic, removed from the sale due to manufacturing defects. Colas Limoges Agency, whose platform makes it possible to recycle numerous products, has set up a collection system for several porcelain manufacturers in order to reuse this raw material on its sites.

The Colas Sud-Ouest laboratory in Condat (Haute-Vienne) has developed a hot mix formula, made up of 30% of porcelain granulates. Objectives: lighten the coating and bring an aesthetic touch to the pavement. Successful bet with thirty tons of "porcelain" mixes made on a pedestrian plateau of the Avenue du Midi, close to the old Limoges.

Well Being :

Better visibility of the road and visual comfort

Social Cohesion :

Interest of the population for the reuse of an old and traditional resource

Preservation / Environmental Improvement :

Recycling of previously buried and landfilled materials

Resilience :

Nothing to report

Responsible use of resources :

Use up to 30% recycled materials

Governance

Limoges Metropole

Holder Type : Regional Authority

Colas Sud Ouest

Builder Type : Construction Industry

Limoges Metropole

Manager / Dealer Type : Public

Joint research between the community and the company to find energy savings

Sustainable Solutions

Porcelain recycling in pavements

Description :

Incorporation of crushed porcelain recycled in asphalt to reduce energy consumption.

The materials are recovered on the platform of Condat sur Vienne.

They are then treated by crushing and screening in order to obtain a product compatible with the use of bituminous mixes.

Once this treatment is completed, the products are sent to the asphalt mixing plant and incorporated with other materials from quarries.

Finally the bituminous mixture is transported to the site and implemented.



The finished product is recyclable again at the end of the road's life.

- Urban project governance
- Circular economy
- Waste management
- Urban Lighting


Company (es) Website :

Company (es) Website :




Contest

Building candidate in the category



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