



## Marine biological resources

### VECOP

#### RECYCLING SEASHELL BY-PRODUCTS FOR USE IN CONSTRUCTING PERVIOUS URBAN PAVING

The VECOP project, managed by the Caen-based laboratory ESITC, involves producing a new eco-material for constructing pervious 'eco-paving' by commercially developing the shell by-products from queen scallops, king scallops and slipper limpets to optimise management of these natural resources.

The VECOP pervious 'eco-paving' is intended for use in urban developments where traffic is light: pavements, kerbstones, pedestrianised squares and streets. Based on seashell by-products, the paving will combine rainwater drainage, mechanical resistance and permeability properties.

To meet the required technical and environmental performance targets for the eco-material to be used, the project will select and pre-process shell by-products to improve their physico-chemical and mineralogical properties. The project will also develop industrial manufacturing and application processes for this 'eco-paving'.

Lastly, the VECOP project will provide a real solution to the basic problem of the proliferation of slipper limpets by offering the potential to economically develop a high added-value product from their shells. The project will also contribute to developing the technical, economic and environmental aspects of an industry based on seashell by-products in the regions of Brittany and Lower Normandy.

### Partners

#### Companies

Granvilmer, Bréville-sur-mer  
Point P, Avranches  
Slipper Limpet Processing, Cancale  
Veolia Propreté, Formigny

#### Research centers

Builders Ecole d'ingénieurs, Caen [\[Project Developer\]](#)  
Université de Caen Normandie, Équipe de Recherche en Physico-Chimie et Biotechnologie ERPCB, Caen

### Funders

FEDER  
Région Bretagne  
Région Normandie

### Labelisation

22/04/2011

### Overall budget

993 K€