

ENVIROC®

The UK's most sustainable aggregate

grs
We go beyond

ENVIROC®

www.grswegobeyond.co.uk

ENVIROC

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Low-carbon secondary aggregates.
Sustainably produced. Sustainably delivered.

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WHY CHOOSE ENVIROC®

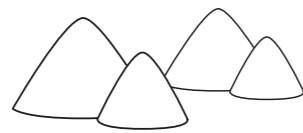
- 1. LOW-CARBON AGGREGATE**
ENVIROC® embodied carbon is up to 47% lower than primary aggregates.
- 2. RESPONSIBLY UK SOURCED**
ENVIROC® starts as a by-product of the Cornish china clay industry.
- 3. TRANSPORTED SUSTAINABLY**
ENVIROC® is imported by sea and rail to keep carbon emissions low.
- 4. MODERN PROCESSING**
ENVIROC® is processed at our ultra-green state-of-the-art Tilbury plant.
- 5. MANUFACTURED TO SPECIFICATION**
ENVIROC® meets BS EN 12620, 13242 & 13383 and SHW 500, 600 & 800.

FOR YOUR NEXT CONSTRUCTION PROJECT?

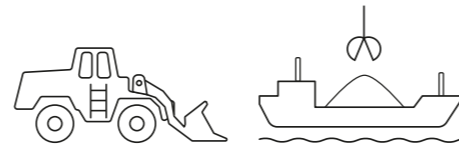
- 6. EFFICIENT DELIVERY TO SITE**
ENVIROC® is delivered via our river, rail and road fleet (HVO fuelled road delivery available).
- 7. CONSISTENCY AT ANY VOLUME**
ENVIROC® has excellent consistency and is available at any volume from large bulk orders to small deliveries in bags.
- 8. OPTIMISING NATURAL RESOURCES**
ENVIROC® reduces demand for newly-quarried primary aggregates.
- 9. HIGHLY DURABLE AND RESILIENT**
ENVIROC® is strong, durable, chemically resilient and weather resistant.
- 10. VERSATILE IN APPLICATION**
ENVIROC® is ideal for unbound uses as well as in concrete and asphalt.

ENVIROC® - THE PROCESS

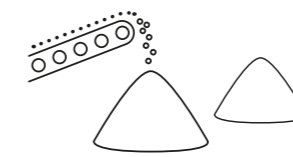
1 Millions of tonnes of granite arising as by-product of china clay mining in Cornwall have been piled in huge waste 'tips'.



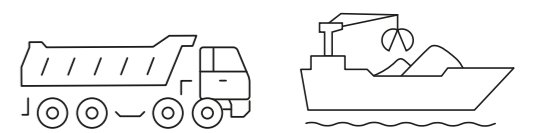
2 The stockpiled material is dug and transported to a marine terminal at Fowey by road where it is loaded onto bulk ships.



3 After being unloaded at Tilbury, East London the material is washed and screened at our state-of-the-art processing plant.



4 The clean graded material is delivered to construction projects across the South East by road and into central London by river.



ENVIROC® | RIGHT PRODUCT, RIGHT PLACE, RIGHT TIME

GRS is the UK's largest independent supplier of construction aggregates. Through our subsidiary businesses in Cornwall and London we are proud to introduce ENVIROC® a low-carbon, high-performance alternative to newly-quarried construction aggregate available across the South East of England.

ENVIROC® is made from granite arising as an unwanted by-product of the Cornish china clay industry. It's a material that's already widely regarded as one of the UK's most sustainable aggregates in the main environmental assessment methods for construction.

As part of our drive towards sustainable development we have gone beyond by making every aspect of the supply chain – from sourcing and transport to production and delivery – as sustainable as possible.

Using an otherwise waste material, and transporting it efficiently, means that ENVIROC® ranks as one of the lowest carbon products of its kind. An independent study shows that ENVIROC® can have up to 47% lower embodied carbon compared to the equivalent land-sourced primary aggregates.

With investment in a state-of-the-art aggregates processing and washing plant at Tilbury Docks and a 20-year supply agreement in place, we produce and market a range of certified single-sized aggregates for onward distribution by road, rail or river. With access to over 1 million tonnes of secondary aggregates a year, no job is too big.

The use of secondary aggregate from the china clay industry is not new, but we are the only team to have invested heavily in the processing facilities and supply chain to ensure the product is available on the open market in the right place, at the right quality and the right volumes to meet demand.

ENVIROC® is arguably the UK's most sustainable aggregate.



SECONDARY AGGREGATES WITH FIRST CLASS CREDENTIALS | ENVIROC®

Granite is a coarse-grained crystalline igneous rock composed mostly of quartz with feldspar and plagioclase. Formed from magma that has slowly cooled and solidified underground, granite has long been recognised as one of the most durable of building materials.

For centuries, the production of china clay (kaolin) has shaped the Cornish countryside. For every tonne of china clay extracted, around 9 tonnes of granite by-product is generated – this has built up into enormous waste piles estimated to be around 500 million tonnes.

This material is known colloquially as 'stent' and modest amounts have been processed and used in the West Country for construction projects, with relatively low volumes transported elsewhere.

Recognising the growing demand for locally-sourced, sustainable building materials has prompted us to take the opportunity to turn more of this under-utilised material into a high-quality construction aggregate.

In addition, by using this material and reducing the waste piles is also helping to return former industrial areas of Cornwall back to priority heathland habitats for the benefit of local wildlife.

ENVIROC® | MODERN MANUFACTURING FOR OUTSTANDING PERFORMANCE

To manufacture products in the ENVIROC® range we have invested in state-of-the-art processing facility at Tilbury Docks, East London, which washes and grades the material to tight quality standards.

Our bespoke plant was designed with sustainable development in mind.

- **Renewable energy**
Power for the plant is supported by an on-side wind-turbine.
- **Rainwater harvesting**
The washing plant uses rainwater that is filtered and reused time after time.
- **Zero waste**
Silt washed off the stone is collected and can be used in land remediation schemes. In future these 'fines' may be used to make lightweight aggregate.
- **Low-carbon transport**
Positioned on Tilbury Docks allows direct loading and unloading of low-carbon waterborne transport and on-site rail loading facilities.



The inherent characteristics of granite mean that ENVIROC® is one of the most versatile and consistent secondary construction aggregates available. We are able to make and supply the vast majority of typical aggregate products including armour stone, type 1 sub-base, 6F5, single sizes, coarse sand, mortar sand, etc.

ENVIROC® gives you the performance of primary aggregate and is a direct replacement for newly quarried carbon-rich aggregates in virtually all applications?

ENVIROC® also complies with the requirements of the following standards:

- **BS EN 12620:2013** for use in concrete in conformity with BS EN 206-1 and concrete used in roads and other pavements and for use in precast concrete products
- **BS EN 12620:2013** such as drainage trenches (SHW Series 500); earthworks and capping (SHW Series 600); sub-base (SHW Series 600); and road pavements (SHW Series 800 and 90000)
- **BS EN13242: 2013** Aggregates for unbound and hydraulically bound for use in civil engineering works and road construction in combination with the Specification for Highway Works (SHW) for aggregates used in applications
- **BS EN13043: 2002** Aggregates for bituminous materials and surface treatment for roads, airfields and other trafficked areas
- **BS EN 13383-1: 2013** Armourstone



ABOUT GRS We go beyond

GRS is the UK's largest independent supplier of construction aggregates - from wholesale landscaping products through to high-volume bulk aggregates for the country's major infrastructure projects.

We specialise in end-to-end transport solutions, sourcing the most suitable products and making optimum use of road, rail and river freight to deliver them as sustainably as possible. As a result GRS handles more than 20 million tonnes of materials each year.

GRS is also a leading provider of waste services, offering complete solutions for recovery, recycling and efficient reuse of construction wastes and industrial by-products. Employing almost 800 people nationwide, the company ranked among the fastest growing British firms in the Sunday Times Top Track 250 four years running.

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