



# BIOSTRASSE



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*the technology in harmony with the environment*



cycling path - Bardolino (Verona)

Biostrasse means modern economic development in the territory, realised through the use of ecologically compatible and sustainable materials designed to protect man and the environment. Realising sustainable development improves the quality of life of all social actors, reducing and optimising the use of natural resources and permitting us to hand down functional ecosystems to future generations. As a response to the growing need for environmental sustainability, Biostrasse has been created as the only conglomerate material certified simultaneously for functional and ecological purposes, with "Zero Environmental Impact".

Biostrasse is a binding agent that acts on intergranular conglomeration at the chemical and physical level, permitting the creation of permeable, draining or impermeable road surfaces, capable of supporting heavy loads. Since it contains no petroleum-based products, Biostrasse is exempt from fluctuations in the price of petroleum. Because of its certified environmental compatibility, it can be used anywhere, even in Sites of Communitarian Interest (SCI), Zones of Special Protection (ZSP) and Special Conservation Zones

(SCZ), or where there are limitations in the use of non-ecologically compatible materials.

## A SUSTAINABLE TECHNOLOGY

The impermeabilisation of the ground due to the realisation of paved areas with products derived from carbon fossils does not permit sustainable management of rainwater, in addition to being one of the causes of hydro geological instability, thereby negatively influencing micro-climatic conditions. Since paving realised with Biostrasse is permeable, it favours the maintenance of the microclimate and does not compromise the life of the ground, which can continue to perform its function of capturing CO<sub>2</sub>.

Biostrasse is currently the only technology that is certified as having "Zero Environmental Impact". Thanks to the total absence of plastic materials and carbon fossil derivatives, works realised with Biostrasse release no harmful substances for man or the environment. While traditional road paving is spread at temperatures of 110-150° C, with a high consumption of energy, Biostrasse is spread cold.

## GREEN BUILDING COUNCIL



Thanks to its characteristics, Biostrasse favours conferral of the LEED certification issued by GBC, the American certifying institute that is present in 70 countries, which GBC Italia belongs to.

## THE ADVANTAGES OF BIOSTRASSE TECHNOLOGY

### PERFORMING



Biostrasse is capable of sustaining heavy loads; since it has no plastic materials, it is not subject to sinking or swelling. It is particularly resistant to atmospheric agents, chlorides and anti-freeze treatments. It can also be laid in areas with rigid temperatures (starting from + 5°) and in addition to making the pavement permeable, the presence of microscopic air bubbles in the screed guarantees significant reduction of noise due to rolling wheels.

### ECONOMIC



The total absence of substances derived from fossil carbon free Biostrasse from international speculation on these raw materials. Additionally, no reinforcement or dilation joints are required. It requires limited banking and has an extremely low index of wear and tear, thereby requiring less intervention for maintenance. The single layer installation and the use of traditional machinery contribute to the significant reduction in costs and realisation time.

### SAFE



Biostrasse pavements are coloured throughout the thickness with natural pigments. The use of light shades of colour improves nighttime visibility, improving the safety of users and reducing illumination costs. Permeability and drainage of paving realised with Biostrasse eliminate the effect of aquaplaning and the pulverisation of water caused by moving vehicles. The porosity of Biostrasse paving increases the traction and adherence of tyres.

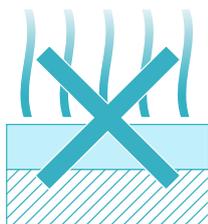
## ECOLOGICAL CHARACTERISTICS



PERMEABLE



DRAINING



IS NOT CLASSIFIED AS SPECIAL WASTE



RELEASES NO HARMFUL SUBSTANCES



DOES NOT ALTER THE CHEMICAL COMPOSITION OF WATER



NATURAL PIGMENTS



cycling path - parco Young (Verona)



golf course cart path - Bergamo



forest road - Alano di Piave (Belluno)



cycling path - Schio (Vicenza)



cycling path - Torri del Benaco (Verona)



country road - S. Anna d'Alfaedo (Verona)

## PIGMENTS



YELLOW



RED



BROWN



GREEN

Note: The represented colour shades are indicative