

ESTEP 2025 Annual Event

28-30 October 2025
Udine (ITALY)

How decarbonisation, digitisation
and circular solutions forge the
sustainable European steel future

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Sustainability and innovation in permeable pavements



DIGIMET



DANIELI AUTOMATION



**UNIVERSITÀ
DEGLI STUDI
DI UDINE**
HIC SUNT FUTURA

How is this type of permeable pavement formed?



+



+

H₂O

=

From 0 to 5% of the
geopolymer mass



ECOGRAVEL®

ABS product derived from the transformation of Electric Arc Furnace (EAF) slag. It contains metal oxides that enhance adhesion and ensure a complete coating of the aggregate, with no release of substances into the environment.

GEOPOLYMER BINDER

Combination of a micronized powder precursor, amorphous aluminosilicate, with an alkaline reagent.

H₂O

Percentage of water between 0 and 0.5% of the geopolymer binder mass.

GEOPOLYMER MADE FROM RECYCLED MATERIALS

A non-hydraulic material that provides an excellent alternative to cement.

Key Advantages

DANIELI

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PERMEABLE

(Void ratio
approximately 25%)

**MORE
ECONOMICAL**

**MORE DURABLE
THAN ASPHALT**

**RESISTANT
TO THERMAL
SHOCK**

**RESISTANT TO
FIRST-CATEGORY
LOADS**

**RESISTANT
TO ACIDS**