

COLORED CONCRETE ENERGIZED BY

LANXESS
Energizing Chemistry

Case Study

Project:
Eurobruggen in Spijkenisse
Netherlands

X BAYFERROX®
Color for Life.

COLORED CONCRETE WORKS®
An initiative of LANXESS

FROM EUROPEAN BANKS TO RIVER BANKS – A **BRIDGE** FROM ART TO REALITY



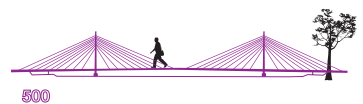
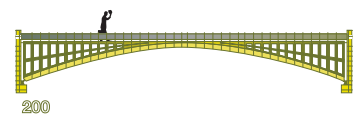
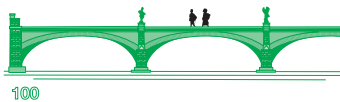
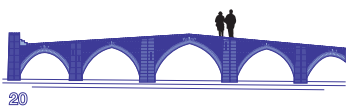
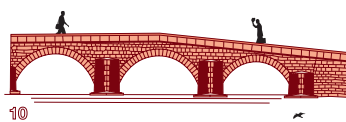
Modeled on bank notes

Applied art – there is hardly a more fitting term to describe the ambitious Eurobruggen project from the pen of graphic designer Robin Stam. The fictitious bridges found on Euro bank notes since 2002 became reality in southern Holland between 2011 and 2012: a selection from the seven viaducts in total, each dedicated to a different era, that adorn the reverse of the currency. So far, three of the seven bridges have been replicated in Het Land, a district of numerous canals in Spijkenisse outside of Rotterdam.

What started out as a game for the young graphic designer has since been cast into imposing concrete. A somewhat different sort of replica that is now drawing nationwide attention from far beyond the community of 73,000 residents and has transformed the canals of a new but otherwise non-descript neighbourhood into a walkable tourist attraction.



- The 10 and 50 Euro notes were among the first to pose as models for the project.

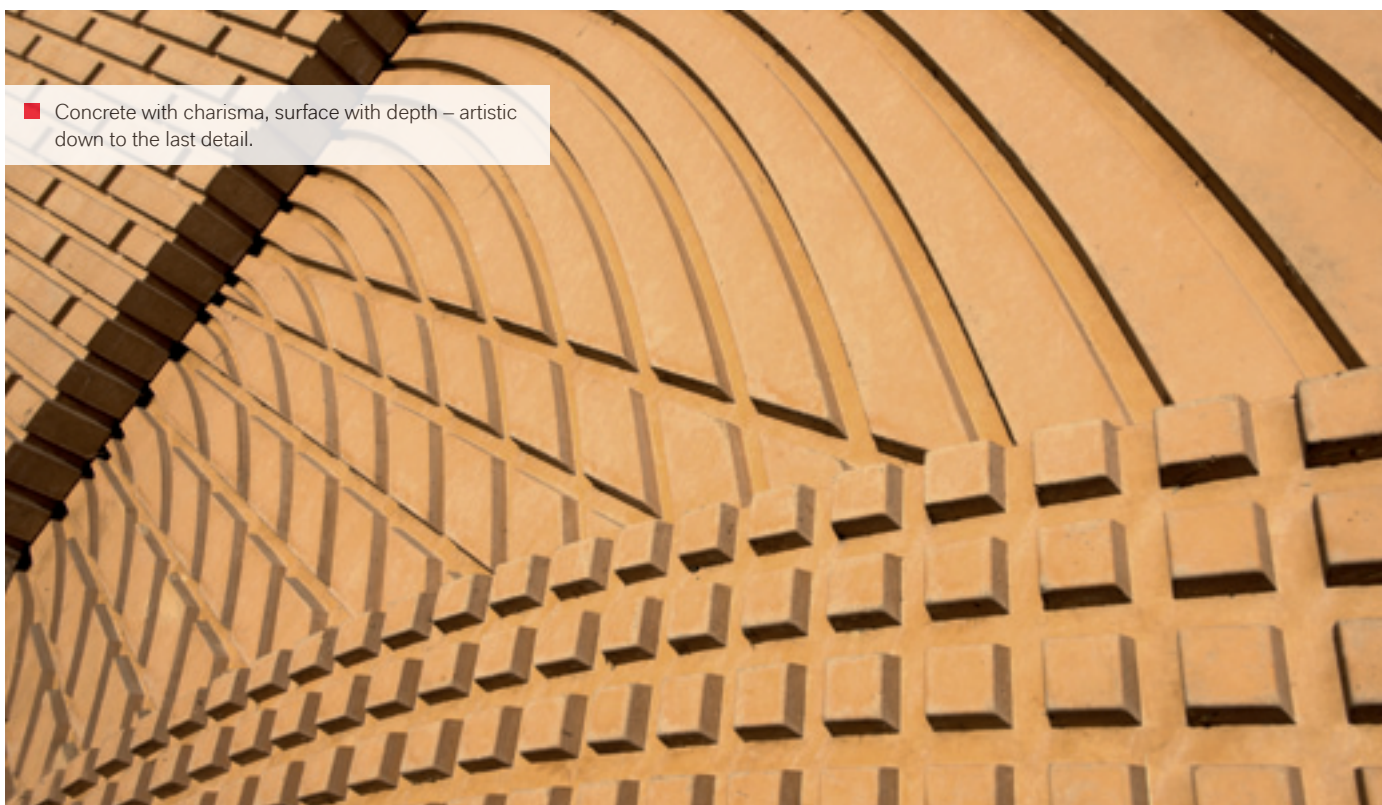


- Seven bank note designs with one goal: to become reality one bridge at a time.

SYMBOLS OF COOPERATION.



■ A colourful conjuncture of civilisation and nature.



■ Concrete with charisma, surface with depth – artistic down to the last detail.

Product of artistic freedom.

The creator of the designs used in this architectural work of art is Robert Kalina, a designer with the National Bank of Austria. He is responsible for the designs on the bank notes, which represent the bridges of various architectural styles – from classic Antiquity, Gothic, Romantic and Renaissance to Baroque, Rococo and Contemporary. What all of the bridges have in common is that each is intended to symbolize the close collaboration between the Euro Zone countries. By translating this idea into concrete architecture, Robin Stam has put an exclamation mark behind this metaphor while at the same time creating a monument to the Euro. The mayor of Spijkenisse and the European Central Bank recognized this back in the planning phase and immediately agreed to support the project. The first three bridges completed are part of a large scale project that will bring to life four more bridges shown on the currency.



“I WANTED THE ILLUSION OF A RECREATED STAGE SET WITH A TOUCH OF LAS VEGAS.”

Robin Stam

Born in 1981, Robin Stam is a designer living and working in Rotterdam. He graduated from the Willem de Kooning Academy before working for several years as a graphic designer. He has since gone on to found the eponymous Robin Stam design company specializing in original designs and particularly off-beat design solutions. He himself is the initiator of the Eurobruggen project. Robin Stam is also a cofounder and member of the Rotterdam artist collective Rotganzen.

■ Literally paving the way: the Eurobruggen in a new neighbourhood of Spijkenisse.



POLITICAL STATEMENT WITH A **HINT** OF ILLUSION.

Bridges from Euroland.

The primary things that Robin Stam hopes to express in his works are enthusiasm, a wink and the corresponding design language. To give his bridge designs a special touch from the world of stage sets, the artist chose concrete integrally coloured with **Bayferrox®** pigments. The pigments were procured via Scholz Benelux B.V., the renowned colour experts who have worked in partnership with LANXESS for decades. **Colortherm® Green GN**, **Bayferrox® 330 G**, **Bayferrox® 110** and **Bayferrox® 960** were chosen in order to match the colours of the fictitious bridges on the 5, 10 and

50 Euro notes as closely as possible. But another key aspect besides the special surface finish and appearance of the material also played a role in the decision: the ease of use and maintenance of integrally coloured concrete. A significant criterion, given that by the very nature of their function the bridges are subject to greater-than-normal stresses. At the same time, because pigmented concrete is a sustainable building material, it ensures only minimal ecological emissions. And this is good for both people and nature

■ Integrally coloured concrete vividly staged in authentic colours.





■ Several arches making a powerful impression.



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PROJECT DATA

■ Aiming high – a small bridge with a big effect.



Location

Spijkensisse, Holland

Architecture

Robin Stam

Principal

Municipality of Spijkensisse

Project participants

Gebrüder Schouls;
Ingenieursbüro IOB;
Waco Lingen Beton B.V.

Construction period

2011 – 2013

Volume of concrete

5 Euro bridge: 9.2 m³, 10 Euro bridge: 18.7 m³
50 Euro bridge: 23.9 m³

Amount of pigment

5 Euro bridge: 108 kg, 10 Euro bridge: 200 kg
50 Euro bridge: 240 kg

Form supplied

Powder in paper sacks

Supplier

Scholz Benelux B.V.



Pigments

Lightfast pigments from Scholz Benelux B.V.



Colortherm® Green GN
(5 Euro bridge)



Bayferrox® 330 G
(5 Euro bridge)



Bayferrox® 110 in gray cement
(10 Euro bridge)



Bayferrox® 110 in white cement
(10 Euro bridge)



Bayferrox® 960 in gray cement
(50 Euro bridge)



Bayferrox® 960 in white cement
(50 Euro bridge)