

# QUALITY COLORS.



© Sören Deppe

## Case Study

Rosenplatz, Osnabrück, Germany



**QUALITY WORKS.**





## A street becomes an inviting plaza again.

They are a phenomenon found in many cities: urban spaces that are now “plazas” in name only. At best the name is reminiscent of the former purpose and value of these places, which today serve only as utilitarian, gray traffic zones. This also was true of “Rosenplatz” or “Rose Plaza” in Osnabrück, Germany. Adapted to the demands of heavy motor vehicle traffic, and its intensive use as a multi-lane thoroughfare, the space could no longer be called a plaza in any sense of the word. Neither the type of buildings lining the street nor the way the majority of the adjacent spaces were being used could be called typical of a plaza. What’s more, nothing was even faintly reminiscent of the former rose beds after which it was named.

The design by architect Oliver Bormann and landscape architect Martin Diekmann succeeds in a variety of ways in breaking and transforming its dominant character as a main urban road. By enhancing the space and adding new opportunities for using it, the new design has finally made Rosenplatz inviting once more. One of the core design elements used by the architects was concrete pavement integrally colored with **Bayferrox®** color pigments in different shades of pink.



■ Rosenplatz before renewal:  
A utilitarian, gray traffic zone, devoid of the qualities of a plaza.

■ The layout shows the cast-in-situ concrete fields, integrally colored with varying pigment concentrations – a nod to the original rose beds.





**“USING INTEGRALLY COLORED CAST-IN-SITU CONCRETE FOR THE ROADWAY SURFACING MEANS: DURABILITY PLUS ATTRACTIVE COLORATION AND DESIGN.”**

Oliver Bormann (yellow z) left  
Martin Diekmann (lad+) right

Oliver Bormann, born in 1968, has been the proprietor of yellow z urbanism architecture zürich berlin since 2008. It was formed by the merger of process yellow architekten und stadtplaner, of which he had been co-owner since 2002, and Büro Z. His agency specializes in urban development concepts and strategies, urban design and landscape architecture.

Martin Diekmann, born in 1960, studied architecture and landscape architecture in Hanover, Germany. After working in London for a time, he established Büro lad+ landschaftsarchitektur diekmann in Hanover in 1991. His interdisciplinary agency specializes in designing public spaces and planning outdoor facilities surrounding public and institutional buildings.

■ The integrally colored and two-layer concrete pavement can even withstand high traffic volumes.



**Precision in color & function.**

In transforming the space, the architects worked on three levels: surface, object, margin. To design the surface, a color grid of long rectangles was placed on top of the roadway. The resulting color scheme recalls the original rose beds located in the center of the plaza. The 9 centimeter-thick, cast-in-situ concrete fields, integrally colored with different pigment concentrations in four different shades of pink, are paved over a 17 centimeter-thick base layer of concrete. The preparatory work, the actual paving and the curing of the concrete all required maximum precision.

The result of this precision planning is a first in Germany in terms of both design and technical implementation. Thanks to a two-layer concrete paving method, the highly unusual color scheme fulfills the high mechanical demands imposed on federal highways with heavy traffic.

■ The color scheme and greenery restore the look of a plaza, while retaining the road's function as a main city traffic artery.



■ A historical postcard shows Rosenplatz as a quiet and very green city park.



■ The color scheme, highly unusual for a road, fulfills all aesthetic and technical requirements.

# LIKE RAFTS IN FIELDS OF ROSES.

## Color that lasts.

At the edge of the rose-colored roadway, expansive wooden decks appear to sprout up from the ground, like rafts amidst the busy traffic. They provide new possibilities for using the space, serving as benches or even loungers, becoming anchor points and stages to diversify the use of the plaza. The decks and bus stops harmonize in terms of both form and material, being made from steel and thermally modified wood derived from native species. The pedestrian zone is illuminated indirectly by lighting elements in the bases. Trees planted at irregular intervals and islands of greenery, together with the integrally colored road surface, break up the monotonous look of typical traffic routes.

It creates eye-catching features noticeable even to through traffic, which should help to sharpen perception of the space.

With their design and the use of **Bayferrox® 130** and **Bayferrox® 160**, the architects created a space that is a hybrid of a road and a plaza. Rosenplatz in Osnabrück has been restored to its purpose as a plaza and regained its characteristic colors. **Bayferrox®** color pigments, with their outstanding light- and weather-stability, ensure that the plaza simultaneously fulfills all the competing demands imposed on a main road.

■ Wooden decks lining the plaza enhance the diversity of its use.



■ The wooden decks and bus tops lining the plaza harmonize in form and material.



## PROJECT DATA

### Location

Osnabrück, Germany

### Planning

yellow z urbanism architecture zürich berlin  
lad+ landschaftsarchitektur diekmann  
BPR Planen Beraten Realisieren, Hannover  
Consulting for concrete paving:  
BEVBE Rolf Werner, Dipl. Ing. HTL/STV,  
Bonstetten (CH)

### Principal

City of Osnabrück

### Construction period

2011 - 2012

### Form supplied

Powder in paper sacks

### Supplier

Harold Scholz & Co. GmbH, Recklinghausen

### Pigments



■ Cycle paths are paved in a consistent, darker red.



**Bayferrox® 130**  
in white cement

**Bayferrox® 160**  
in white cement

## FOR ADDITIONAL INFORMATION, CONTACT THE LANXESS COUNTRY REPRESENTATIVE.

### Germany

LANXESS Deutschland GmbH  
Business Unit Inorganic Pigments  
Rheinuferstraße 7-9  
47829 Krefeld  
GERMANY  
Tel.: +49 221 8885 3974  
Fax: +49 2151 88 4133

### USA

LANXESS Corporation  
Business Unit Inorganic Pigments  
111 RIDC Park West Drive  
Pittsburgh, PA 15275-1112  
USA  
Tel.: +1 412 809 1000  
Fax: +1 412 809 1059

### Singapore

LANXESS Pte. Ltd.  
Business Unit Inorganic Pigments  
3A International Business Park  
#07-10/18 ICON@IBP Tower B  
SINGAPORE 609935  
Tel.: +65 6725 5828  
Fax: +65 6725 4828

### Australia

LANXESS Pty. Ltd.  
Business Unit Inorganic Pigments  
Unit 1/35 Carter Street  
Lidcombe, NSW 2141  
AUSTRALIA  
Tel.: +61 28748 3910  
Fax: +61 28748 3999

### Japan

LANXESS K.K.  
Business Unit Inorganic Pigments  
Marunouchi Kitaguchi Building 23F  
1-6-5, Marunouchi, Chiyoda-ku  
Tokyo 100-8215  
JAPAN  
Tel.: +81 3 5293 8017  
Fax: +81 3 5219 9776

### Great Britain

LANXESS Ltd.  
Colour Works  
Lichfield Road  
Branston  
Burton-on-Trent  
Staffordshire, DE14 3WH  
UNITED KINGDOM  
Tel.: +44 1283 714200  
Fax: +44 1283 714201

### Brazil

LANXESS Indústria de Produtos  
Químicos e Plásticos Ltda.  
Av. Maria Coelho de Aguiar, 215 Bloco  
B - 2º Andar  
05804-902 São Paulo  
BRAZIL  
Tel.: +55 11 3741 2615  
Fax: +55 11 3741 3933

### Italy

LANXESS S.r.l.  
Segreen Business Park, Palazzo Y  
Via San Bovio n.1/3  
20090 - Milano San Felice - Segrate  
ITALY  
Tel.: +39 0230722644  
Fax: +39 0230724298

### South Korea

LANXESS Korea Ltd.  
9F, Samsung Boramae Omni Tower  
23, Boramae-ro 5-gil  
Dongjak-gu, Seoul  
07071, Korea  
REPUBLIC OF KOREA  
Tel.: +82 2 6715 5100  
Fax: +82 2 847 3295

### Central and Eastern Europe

LANXESS Central Eastern  
Europe s.r.o  
EUROVEA  
Central  
2 Pribinova 6  
811 09 Bratislava  
Slovak Republic  
Tel.: +421 2 3215 1626  
Fax: +421 2 3215 1699

### Spain

Europigments, S.L.  
Business Unit Inorganic Pigments  
Arquitectura, 27  
Poligono Industrial Els Garrofers  
08340 Vilassar de Mar  
SPAIN  
Tel.: +34 937 540 770  
Fax: +34 937 540 784

### China

LANXESS Specialty Chemicals  
Co., Ltd.  
No. 458 Haijin Road  
Jinshanwei Town  
Shanghai, 200540  
R.P. CHINA  
Tel.: +86 21 5284 7860  
Fax: +86 21 6250 0769

### India

LANXESS House  
Plot no's. A162-164  
Road No.27, MIDC  
Wagle Estate  
Thane (West) - 400604  
Maharashtra, INDIA  
Tel.: +91 22 25871000  
Fax: +91 22 25871287

### France

LANXESS S.A.S.  
Inorganic Pigments  
Le Doublon A  
11, avenue Dubonnet  
92407 Courbevoie Cédex  
FRANCE  
Tel.: +33 1 80 46 30 00  
Fax: +33 1 80 46 30 45

**LANXESS**  
Energizing Chemistry

LANXESS Deutschland GmbH  
Business Unit  
Inorganic Pigments  
Rheinuferstraße 7-9  
47829 Krefeld  
GERMANY  
E-Mail: coloredconcreteworks  
@lanxess.com  
www.lanxess.com  
www.bayerferrox.com  
www.colored-concrete-works.com

### Health and safety information

Appropriate documentation was compiled with information on the health and safety measures that have to be observed in handling the LANXESS products mentioned in this brochure. For materials mentioned here that are not LANXESS products, the operational hygiene and other safety measures recommended by the respective manufacturers must be observed. Before working with these products, you must read and familiarise yourself with the available information on their dangers, proper use and handling. This point is of decisive importance. Information is available in various forms: such as safety data sheets, product information and product labels. Please contact your LANXESS representative in Germany or the Department of Regulatory Affairs and Product Safety of LANXESS Deutschland. For business in the USA, please contact the LANXESS Product Safety and Regulatory Affairs Department in Pittsburgh, Pennsylvania.

### Information on Regulatory Compliance

For some end use purposes of the products found in this brochure, the applicable regulations must be observed, including those of the FDA, BfR, NSF, USDA and CPSC. If you have any questions regarding the approval status of these products, please contact your representative at LANXESS Deutschland GmbH or the Department of Regulatory Affairs and Product Safety of LANXESS Deutschland GmbH or, for business in the USA, your representative at LANXESS Corporation, the LANXESS Regulatory Affairs Manager in Pittsburgh, Pennsylvania. How and for which purposes you utilise our products, our technical support and our information (oral, written or through product assessments) is beyond our control. The same applies for suggested formulations and recommendations. Therefore it is indispensable that you check our products, our technical support and our information for their suitability for the intended processes and purposes. The application-specific analysis must encompass at least suitability tests in regard to technical as well as health, safety and environmental aspects. Such testing has not necessarily been done by us. Unless agreed to otherwise in writing, all products are sold exclusively in accordance with our general terms and conditions for sale and delivery. Information and technical support are provided without warranty (we reserve the right to make changes at any time). It is expressly agreed that you release us from any possible liability resulting from the use of our products, technical support and information due to fault, contract or other reasons and that you assume this liability yourself. Any statements and recommendations not contained in this brochure are not authorised and are not binding for us. None of the information in this brochure is to be interpreted as a recommendation to use the products in any way that violates commercial proprietary rights such as patents in regard to any materials or their use. Furthermore, neither explicitly nor implicitly is any licence granted under commercial proprietary rights such as patents.

Bayferrox® is a registered trademark of Bayer AG, Leverkusen, Germany.  
Colortherm® is a registered trademark of the LANXESS Group.

Issue 1/2017

Visit our Internet site:  
[www.colored-concrete-works.com](http://www.colored-concrete-works.com)

