

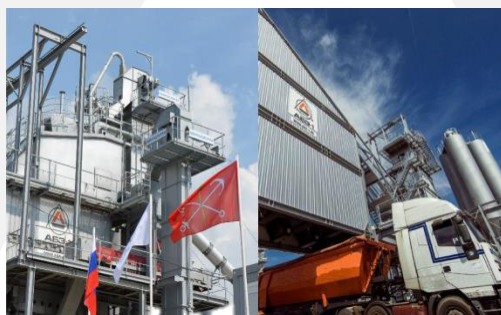
**Colored asphalt  
with B2color binder —  
improving quality of the urban  
environment**



# ABZ-1 GROUP business profile

**Since 1932**

Production of road materials



Production of road materials

**Since 2000**

Subcontracting for road construction works



Scientific research activities

**Since 2007**

General contracting for transportation infrastructure facilities



Road construction works

**Since 2020**

Infrastructure development (PPP Projects)



Laboratory

# ABZ-1 GROUP business profile

## Areas of activity:



Infrastructure development (PPP projects)



General contracting and engineering in construction



Construction, reconstruction and repair of transport infrastructure facilities



Production of road materials



Research and innovation activities

## Key operational metrics:

> 1,7 million tons per year

Production of asphalt concrete mixtures

> 4 million square meters per year

Construction of road surfaces

> 150 objects per year

Transport infrastructure facilities



# Colored road surfaces are a global trend



Superkilen Public Space

Denmark, Copenhagen



Bike lane in the city center

New Zealand, Auckland



# Colored bike paths in the world



USA, Portland



Türkiye, Hatay Province



Brazil, Rio de Janeiro



Denmark, Copenhagen



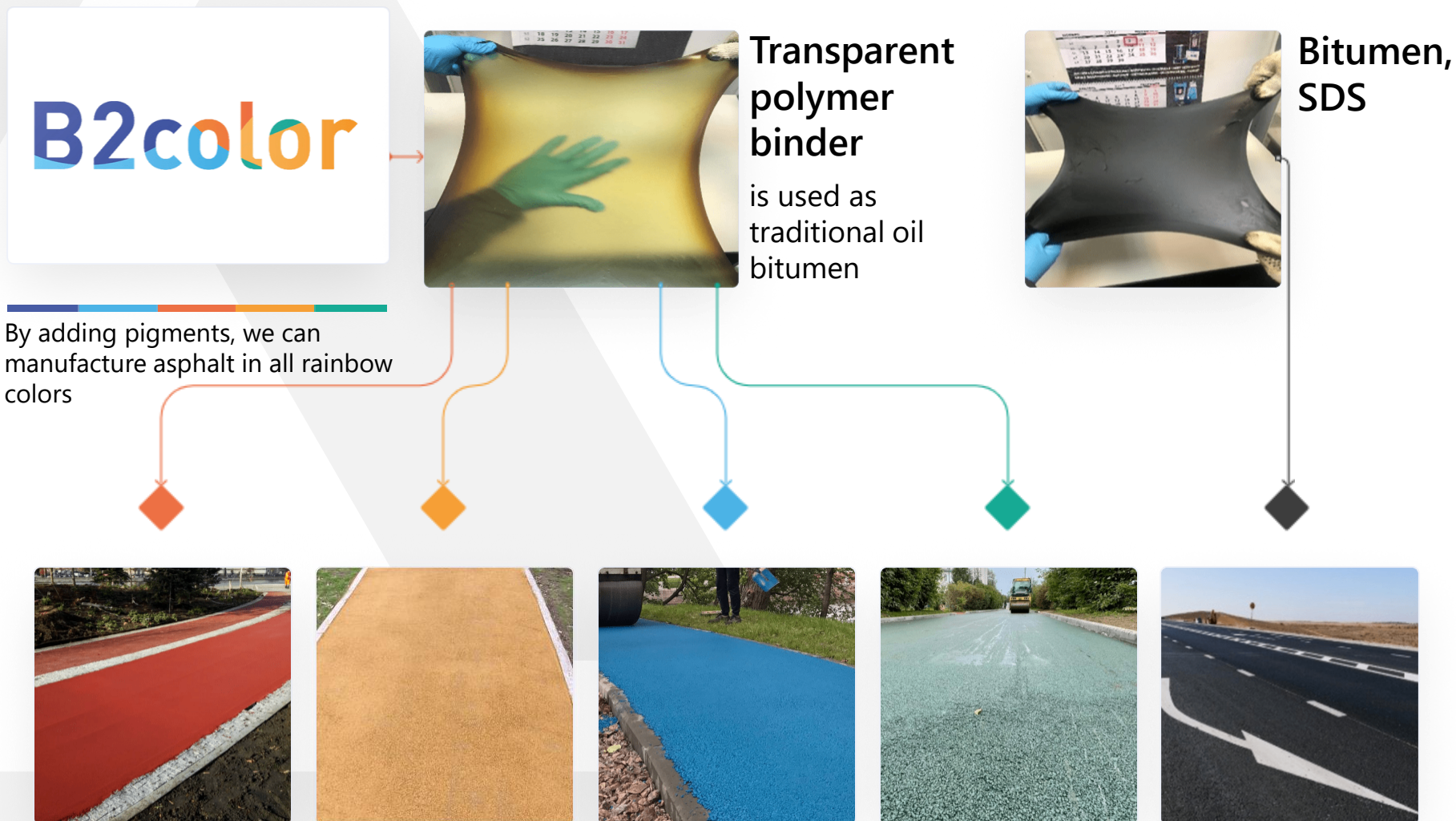
Japan, Tokyo



Great Britain, London









# Transparent polymer binder to produce colored asphalt

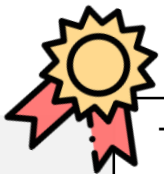




# Justification of the material usage

The product fully meets the 6 criteria of the urban environment quality index:

-  **Safety** for all road users
-  **Comfort** due to increased safety
-  **Environmental sustainability** for vehicle users
-  **Identity** of the overall infrastructure concept
-  **Modernity** of urban design
-  **Budget** management efficiency



The objects using the material are implemented according to the program of the national project "Formation of a Comfortable Urban Environment", being the winners of various nominations.

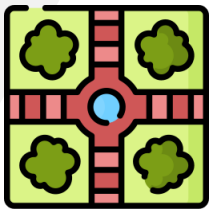


# Justification of the material usage

Usage purposes of colored asphalt concrete, based on B2color:



**Improved safety** for all road users by highlighting dangerous areas and infrastructure elements

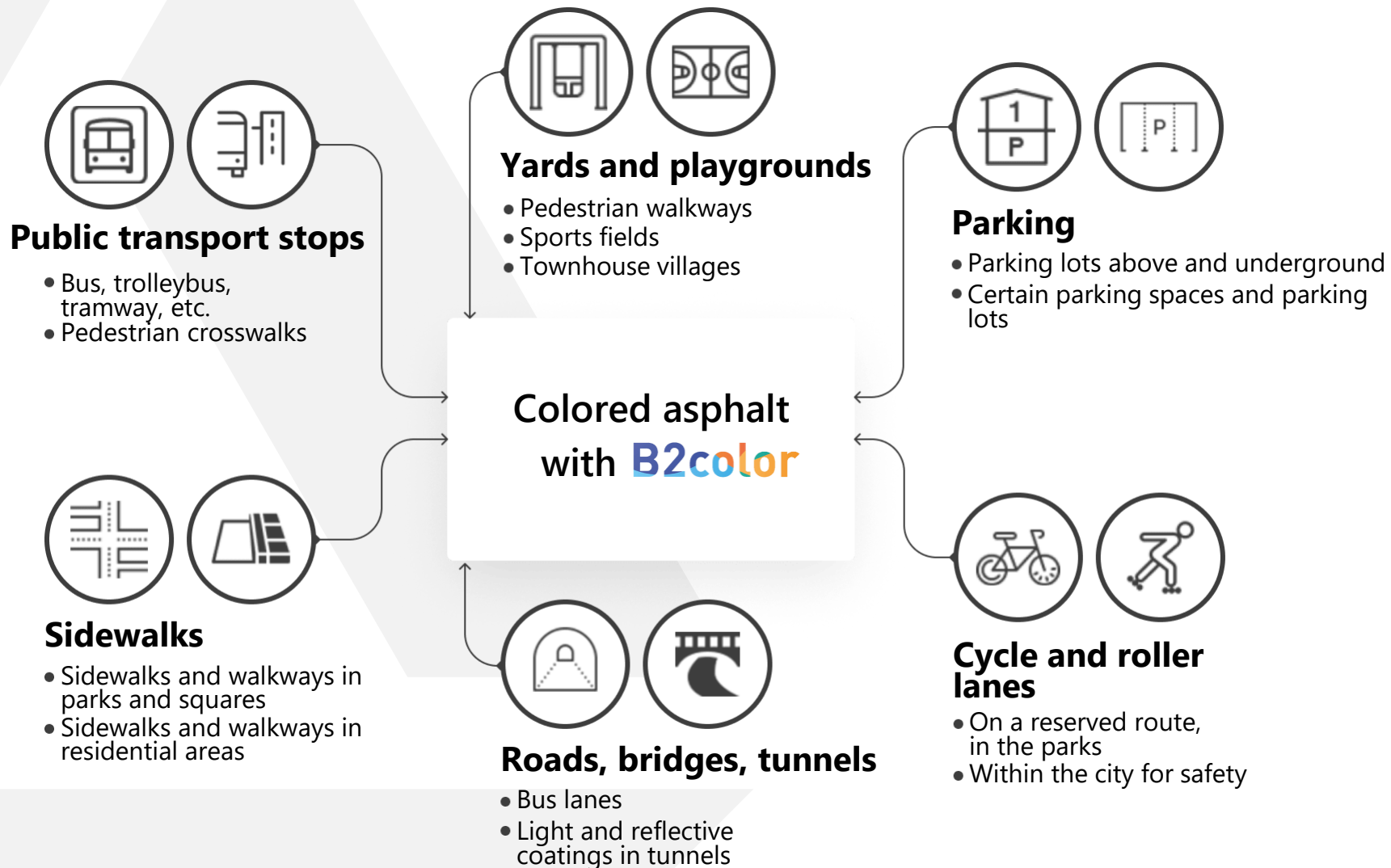


**Aesthetic problems solving** in the organization of pedestrian and bicycle paths in public spaces, parks and other facilities



**Reducing the cost of repairs and maintenance** of the coating due to durability of operation and high strength characteristics of the material (5 times more durable than coatings made from other materials)

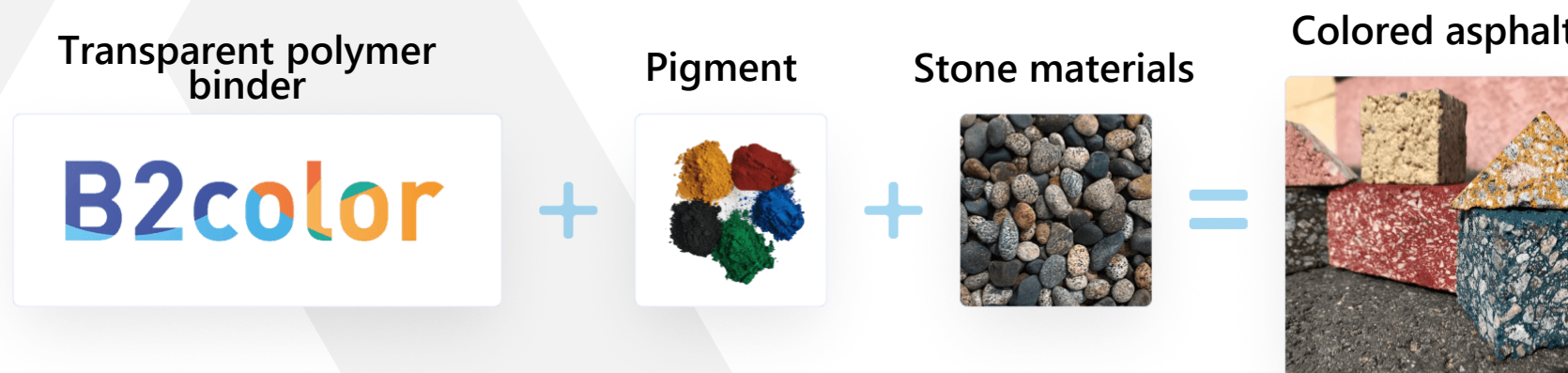
# B2color areas of use



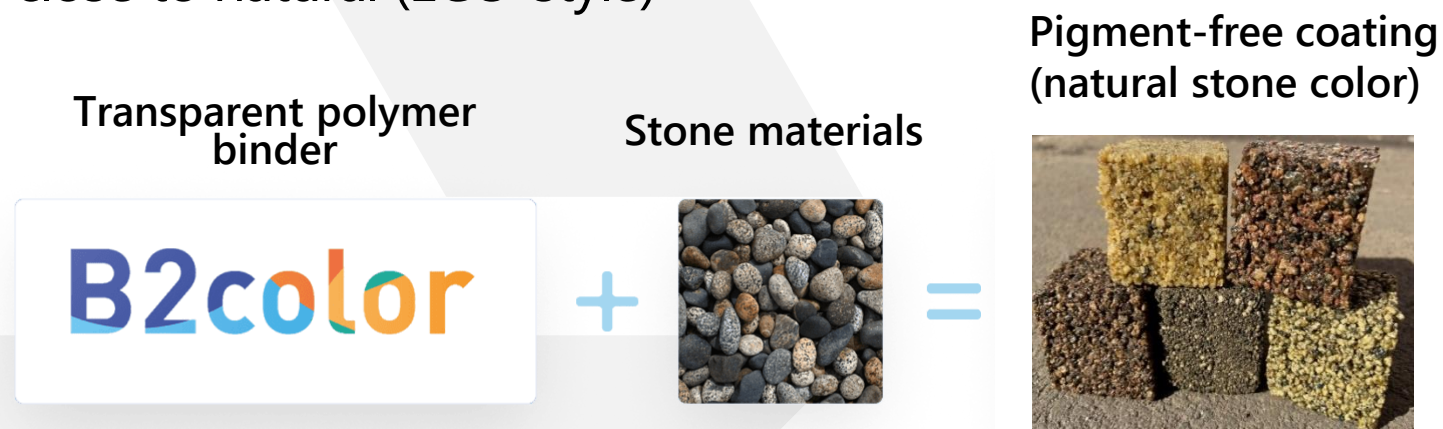


# Manufacturing colored asphalt

## 1. Bright color palette



## 2. Muted colors close to natural (ECO-style)



# Comparison of colored asphalt concrete with alternative coatings

Disadvantages of alternative solutions for bike lanes, fire exits, and walking areas:

Stone tiles



Lack of seamlessness  
Expensive maintenance



Gravel Paths



Gravel migration  
Necessity of renewal



Rubber pedestrian walkway



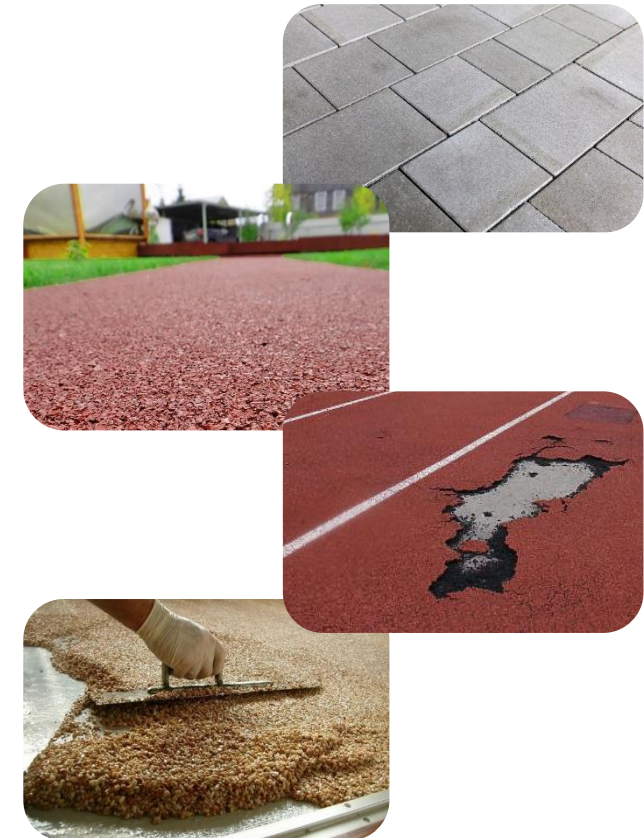
Short service life



Stone carpet



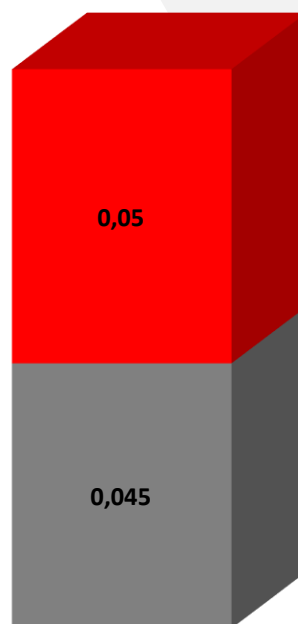
Load limitation



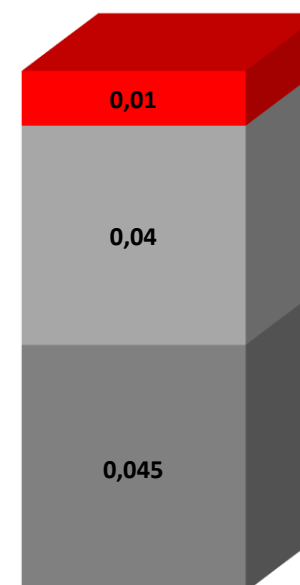


# The cost of 1 m<sup>2</sup> of bike path with a service life of 8 years

Asphalt concrete based on a transparent polymer binder



Colored polyurethane coating



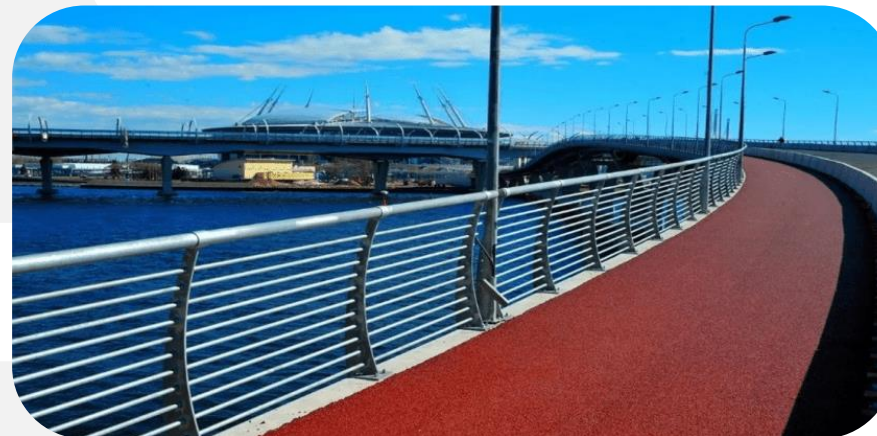
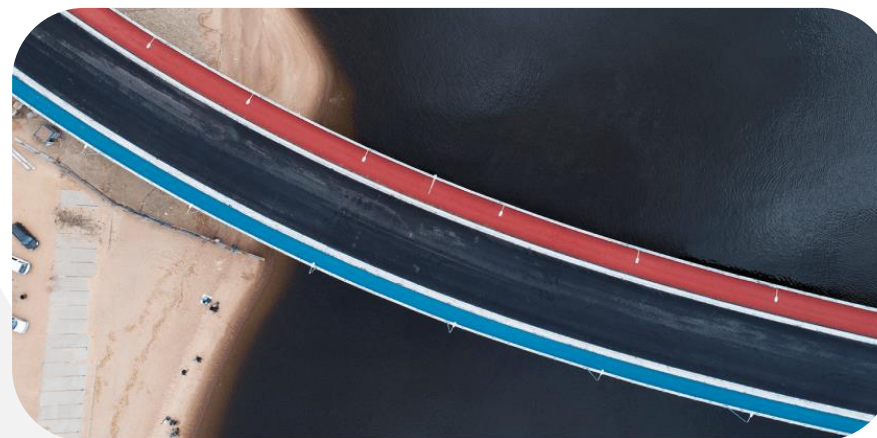
**36 %**

# Landmark objects

## Yacht Bridge

The coating of dense and sandy asphalt concrete mixtures

St. Petersburg, 2017



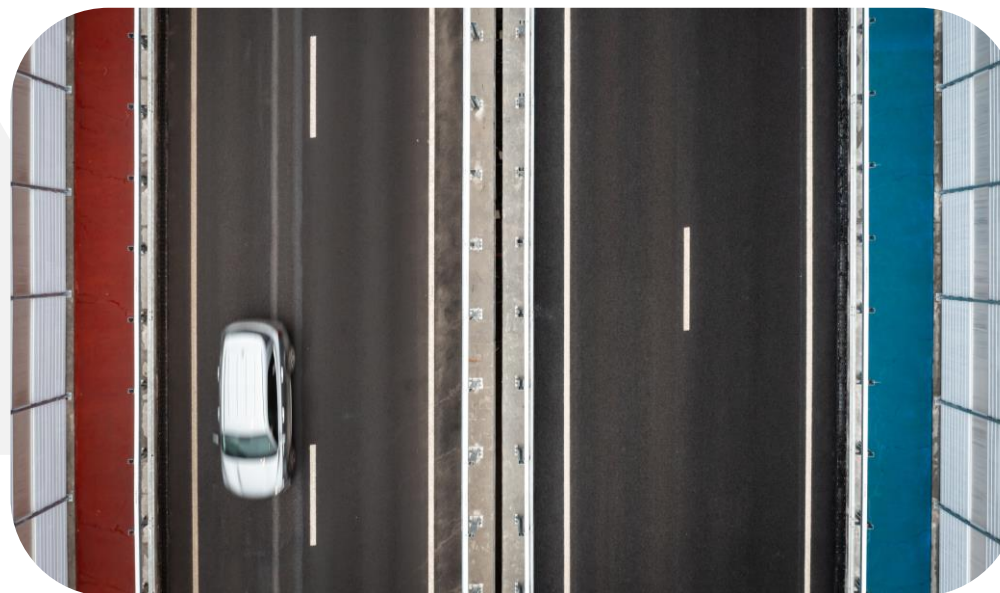


# Landmark objects

## Overpass in Vsevolozhsk

The automobile bridge between the Vsevolozhskaya and Melnichny Ruchey stations was included in the top five objects of the national project "Safe Quality Roads". The rating includes the most interesting and socially significant road sites from all over Russia.

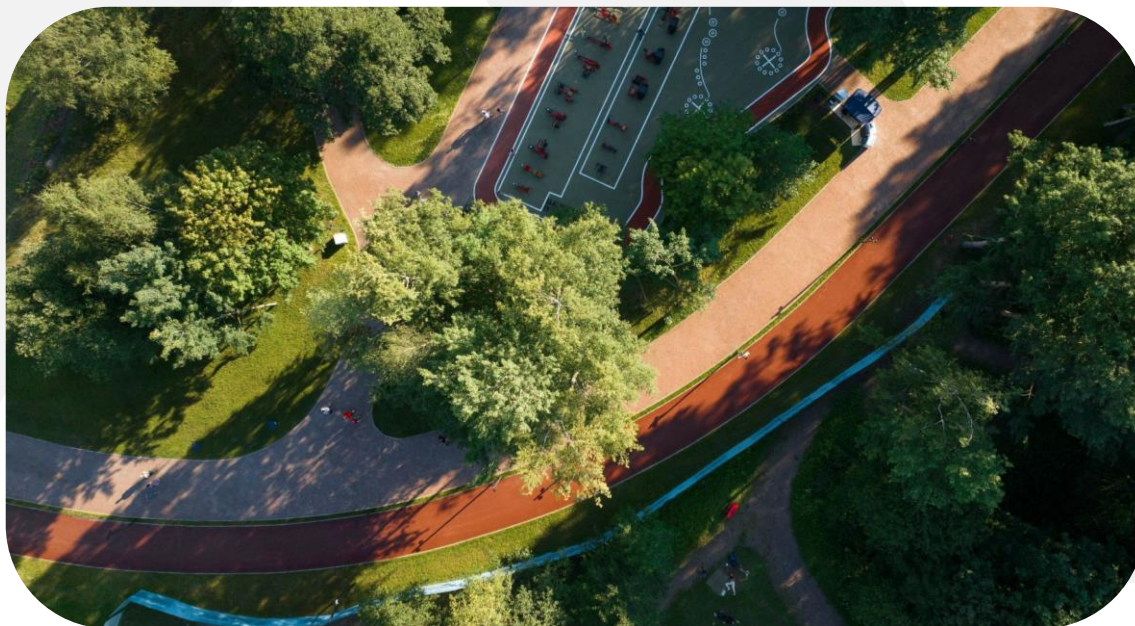
Leningrad region, 2021



# Landmark objects

## Fort Island Park

The coating is made of a maroon sandy dense asphalt concrete mixture  
St. Petersburg, 2022





# State customer

## Public space in Strelna

The coating is made of a red fine-grained dense asphalt concrete mixture

St. Petersburg, 2023





# State customer

## The square on Revolutsiy highway

The coating is made of a blue fine-grained dense asphalt concrete mixture

St. Petersburg, 2023



**Vice-Governor of St. Petersburg E.N. Razumishkin:**

"The blue asphalt has become a feature of the new space. This is not the first colored asphalt in the city."

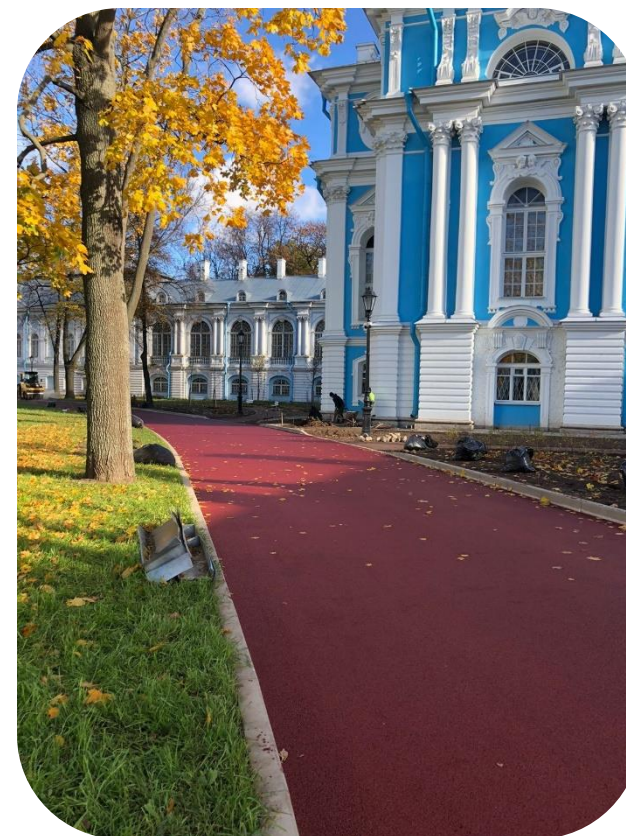
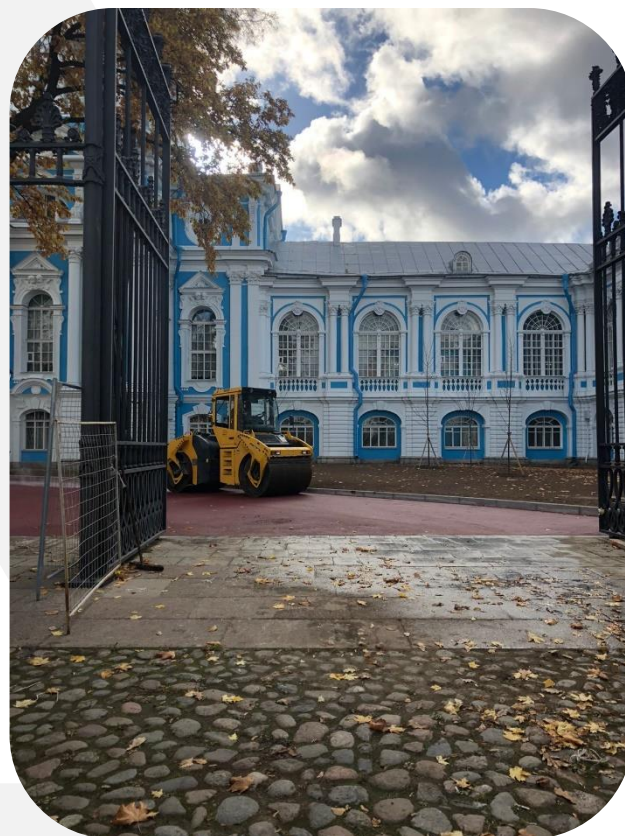
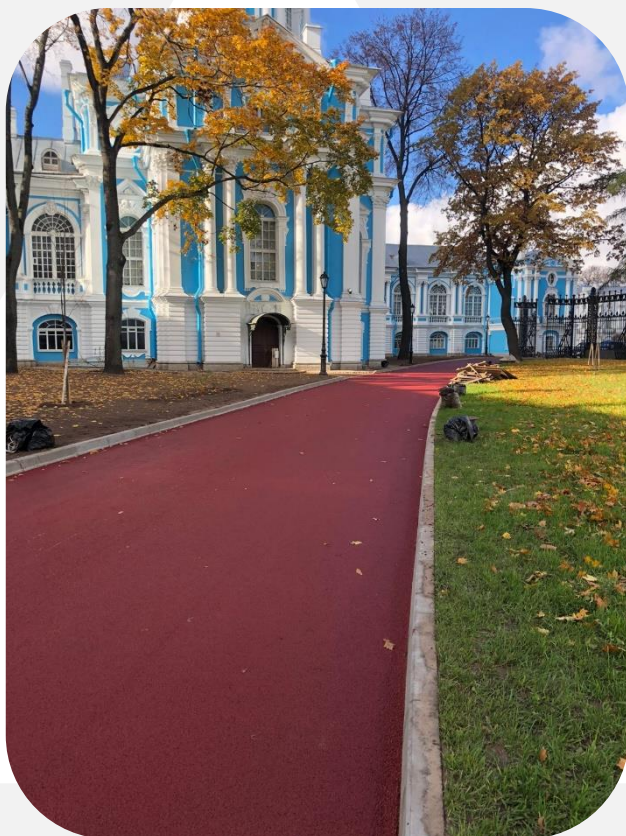


# State customer

## Smolny Cathedral

The coating is made of a red fine-grained dense asphalt concrete mixture

St. Petersburg, 2022



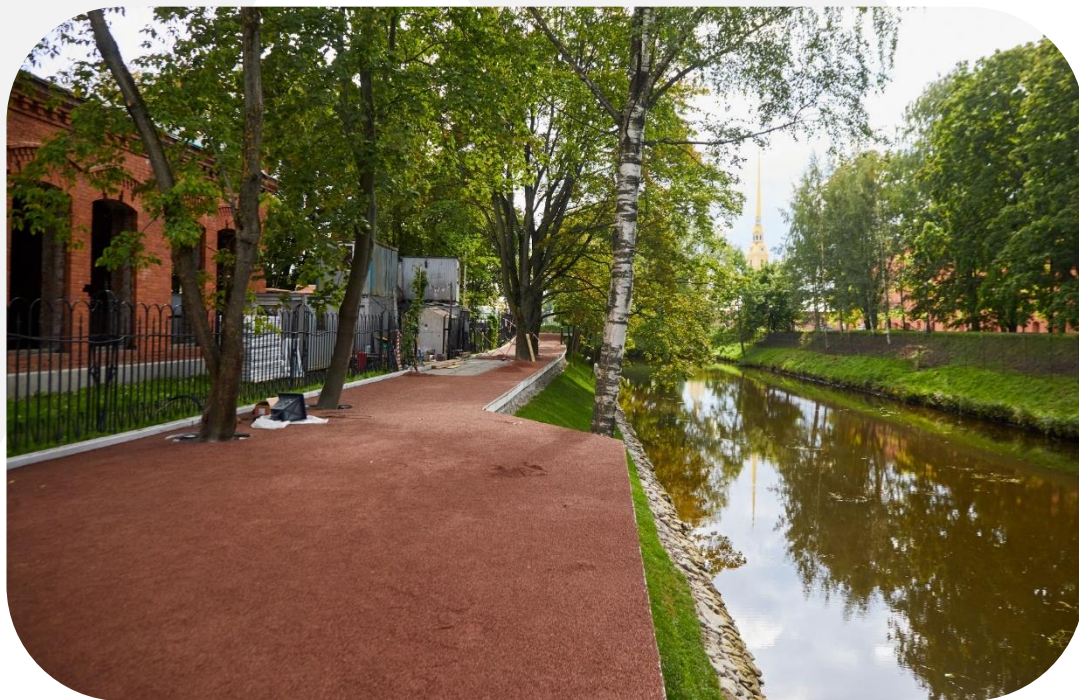


# State customer

## Walking Route «Peter's Way»

The coating of cast asphalt concrete mix with surface treatment with crushed stone

St. Petersburg, 2023





# Residential complexes

**Residential complex «The World inside», developer Seven Suns**  
The coating is made of a red fine-grained dense asphalt concrete mixture  
St. Petersburg, village Duny, 2017



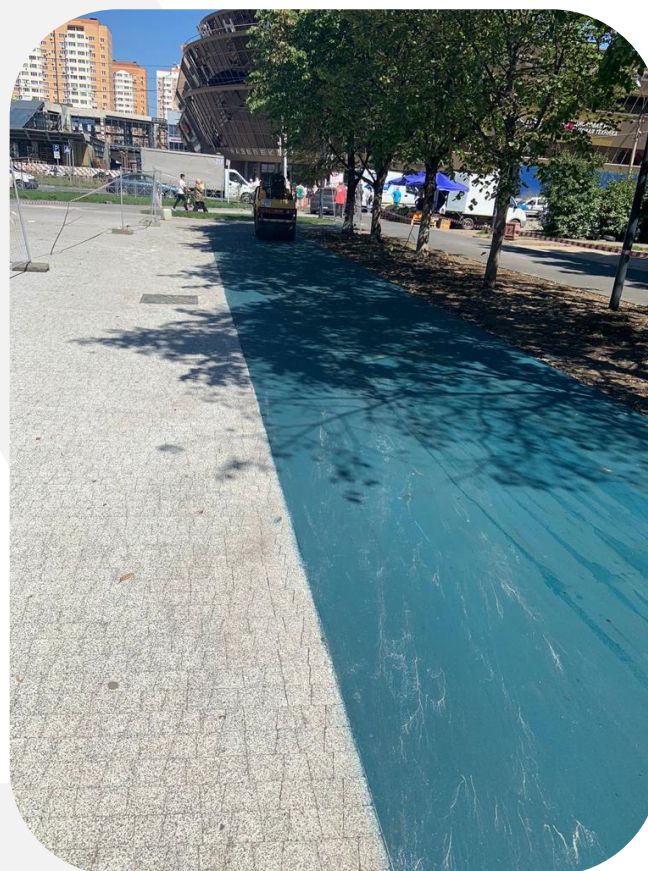


# Facilities in the regions of Russia

## Square «Boulevard of Flowers»

The coating is made of a blue fine-grained dense asphalt concrete mixture

Moscow, 2023



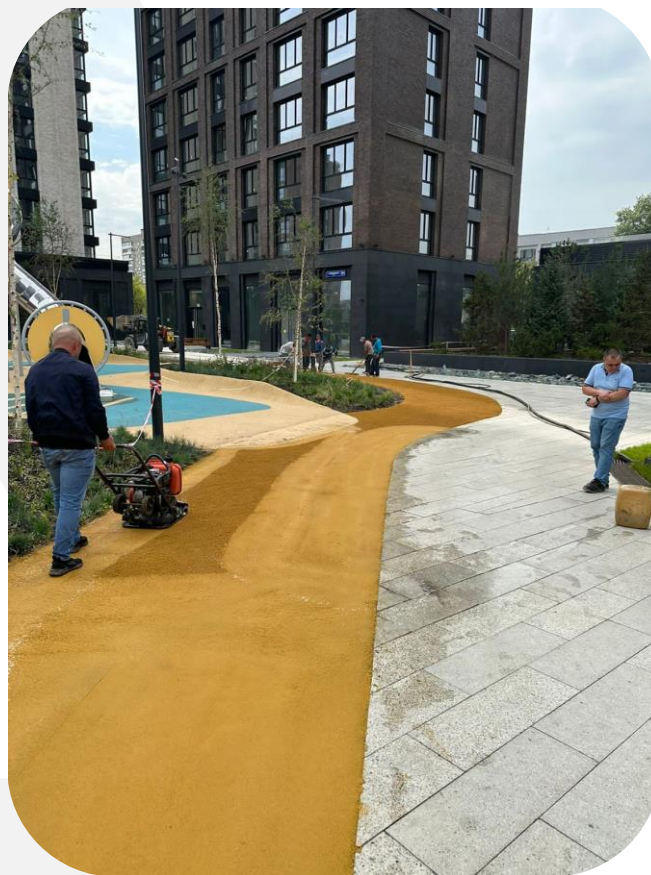
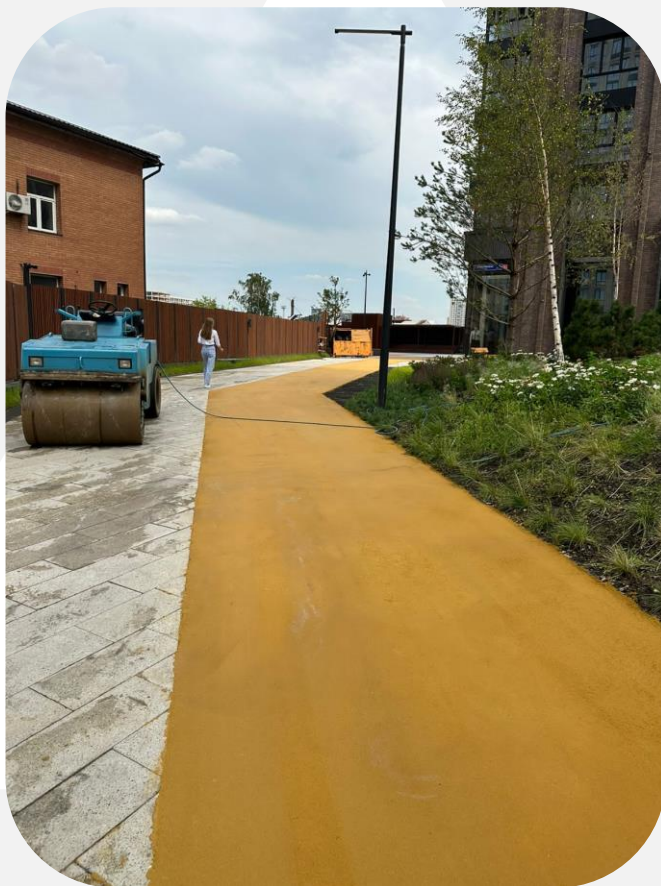


# Facilities in the regions of Russia

Residential complex «Paveletskaya City», developer MR Group

The coating is made of a yellow fine-grained dense asphalt concrete mixture

Moscow, 2023





# Facilities in the regions of Russia

## Bike path in Novosibirsk

The coating is made of a red fine-grained dense asphalt concrete mixture

Novosibirsk, 2022 and 2023



Bike path in Akademgorodok  
2022



Continuation of the bike path in Akademgorodok  
2023



# Facilities in the regions of Russia

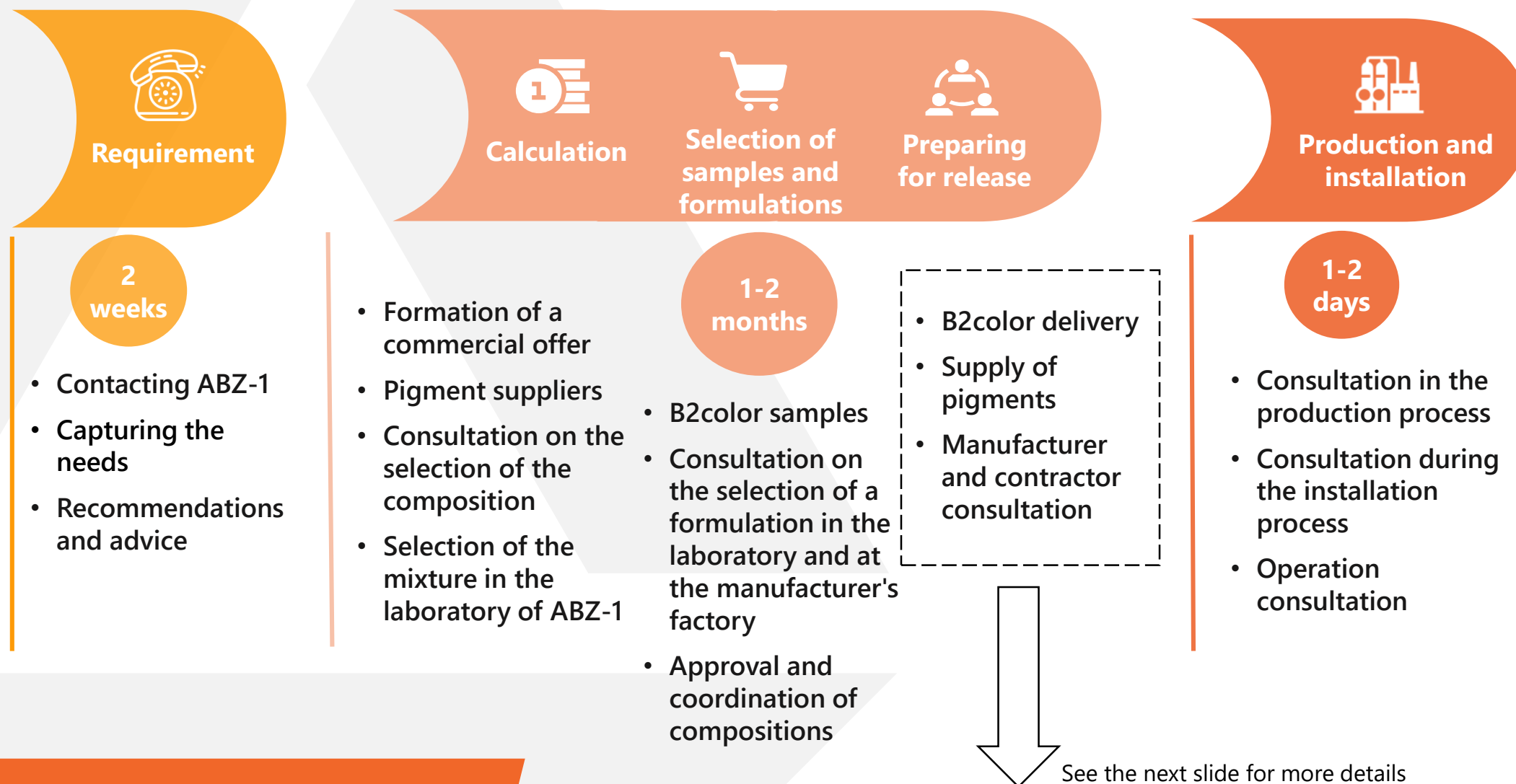
## Bridge "Vysokiy"

Coating of a red and gray cast asphalt concrete mix with the use of a stencil for paving stones

Kaliningrad, 2017



# Project roadmap – colored asphalt concrete using B2color





# Project roadmap – colored asphalt concrete using B2color

B2color delivery



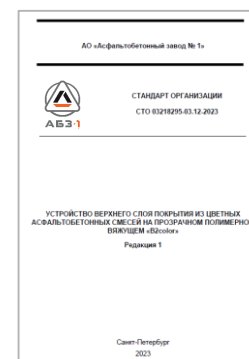
Supply of pigments

Reliable  
trusted supplier



Manufacturer's consultation

- Automatic control system of cyclic action
- Cleaning the automated control system with hot rubble
- Availability of a clean container for B2color



Contractor's consultation

- Roller treatment with soap solution
- Use of smooth-rolling rollers only



# Maintainability



Restorative patching, including the arrangement of hard-to-reach areas with the help of a water-cured color repair mixture



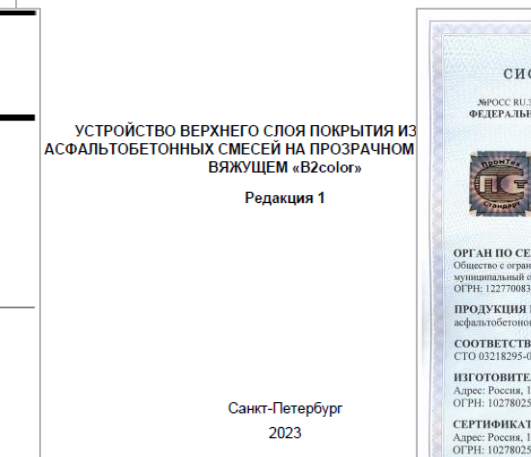
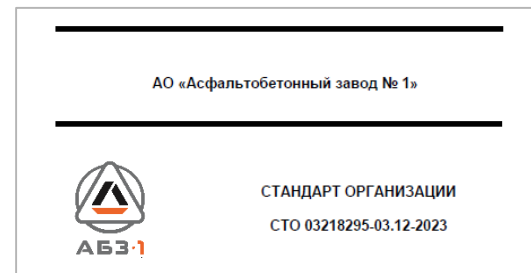
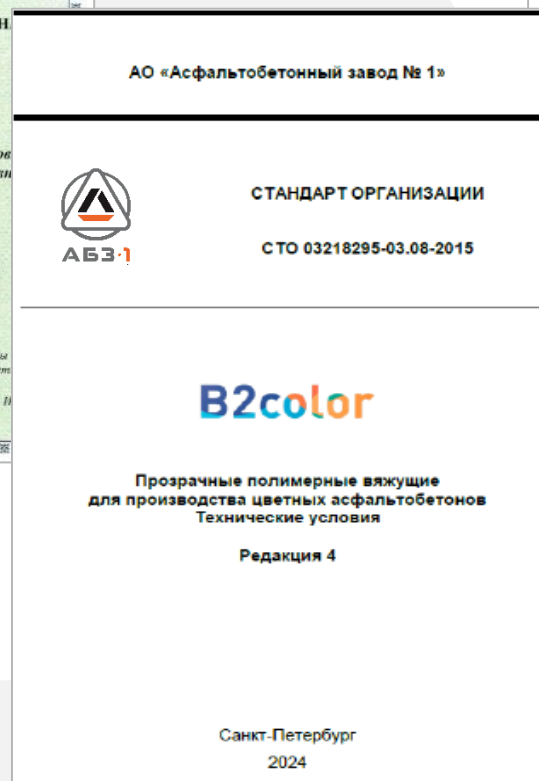
The repair mixture is produced in various colors upon request (using transparent polymer binder B2color)



Tsarskoye Selo Museum-Reserve, 2023



# Transparent polymer binder to produce colored asphalt



# Material Safety Data Sheet

в соответствии с ГОСТом  
ЕВРО № 1907/2006

Прозрачные полимерные вяжущие B2color

Всего страниц 7  
Стр. 1  
Версия 1.0

## 1. ИДЕНТИФИКАЦИЯ ХИМИЧЕСКОЙ ПРОДУКЦИИ И СВЕДЕНИЯ О ПРОИЗВИТЕЛЕ ИЛИ ПОСТАВЩИКЕ

Техническое наименование

Прозрачные полимерные вяжущие B2color

Краткие рекомендации по применению

Используется для изготовления цветных асфальтобетонных смесей

Название организации

Акционерное общество «Асфальтобетонный завод №1»

Адрес

195009, Санкт-Петербург, ул. Арсенальная, д. 66.

Телефон для экстренных консультаций

+7 (812) 542-39-79

E-mail

abz-1@abz-1.ru

Web-site

https://abz-asphalt.ru/

## 2. ИДЕНТИФИКАЦИЯ ОПАСНОСТИ ПО СГС

Классификация

По СГС не классифицируется

Предупредительная маркировка

Отсутствует.

Сигнальное слово

Отсутствует.

Символы опасности

Отсутствуют.

И-фразы

Отсутствуют.

P-фразы

Отсутствуют.

## ТАБЛИЦА ИНФОРМАЦИИ О КОМПОНЕНТАХ

Имя (INCI)	Концентрация (%)	Номер CAS	Номер EC
Вязь эфир с 1,2,3-пропантриолом	30-60	8050-31-5	232-482-5
Пигменты (пигменты), селективный из тяжелых парафиновых	25-50	64741-88-4	265-090-8
Ультрафиолетовый стабилизатор	5-20	63393-89-5	613-299-2
Ультрафиолетовый стабилизатор с бутанди-1,3-	3-10	9003-55-8	618-370-2
Удл. (жирных кислот таллового происхождения)	0.1-1.0	68910-93-0	272-756-1

## О ПЕРВОЙ ПОМОЩИ

взрывоопасен

При попадании продукта на открытую поверхность - промыть глаза большим количеством проточной холодной воды в течение нескольких минут. При попадании на кожу - смыть водой и вытереть насухо. При попадании в глаза - промыть водой в течение 15 минут. Не следует применять никаких средств для удаления раздраженного продукта с кожи или одежды, прилегающей к коже.

раздражающе

При попадании на кожу - промыть водой в течение 15 минут. Не следует применять никаких средств для удаления раздраженного продукта с кожи или одежды, прилегающей к коже.

раздражающе

При попадании на кожу - промыть водой в течение 15 минут. Не следует применять никаких средств для удаления раздраженного продукта с кожи или одежды, прилегающей к коже.

раздражающе

При попадании на кожу - промыть водой в течение 15 минут. Не следует применять никаких средств для удаления раздраженного продукта с кожи или одежды, прилегающей к коже.

раздражающе

При попадании на кожу - промыть водой в течение 15 минут. Не следует применять никаких средств для удаления раздраженного продукта с кожи или одежды, прилегающей к коже.

раздражающе

При попадании на кожу - промыть водой в течение 15 минут. Не следует применять никаких средств для удаления раздраженного продукта с кожи или одежды, прилегающей к коже.

раздражающе

При попадании на кожу - промыть водой в течение 15 минут. Не следует применять никаких средств для удаления раздраженного продукта с кожи или одежды, прилегающей к коже.

раздражающе

При попадании на кожу - промыть водой в течение 15 минут. Не следует применять никаких средств для удаления раздраженного продукта с кожи или одежды, прилегающей к коже.

раздражающе

При попадании на кожу - промыть водой в течение 15 минут. Не следует применять никаких средств для удаления раздраженного продукта с кожи или одежды, прилегающей к коже.

раздражающе

При попадании на кожу - промыть водой в течение 15 минут. Не следует применять никаких средств для удаления раздраженного продукта с кожи или одежды, прилегающей к коже.

раздражающе

При попадании на кожу - промыть водой в течение 15 минут. Не следует применять никаких средств для удаления раздраженного продукта с кожи или одежды, прилегающей к коже.

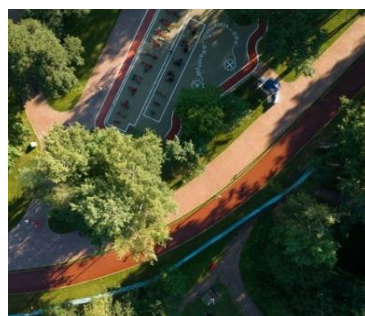
# Customers appreciate colored asphalt concrete

Be the first in your region!

## EXPERT OPINIONS



Issue No. 19 dated 11/28/2022



**Anton KIRAKOSYAN, Founder and CEO of KAS-Dorstroy**

«We have been working with ABZ-1 colored asphalt for more than four years, however, so far we have only used two shades of red. One of the last objects is Fermskoye Highway in Pushkin: the road is six meters wide and one kilometer long. But we mainly work with this material when creating bike paths in residential complexes. However, there are examples of the successful use of

such material on overpasses, bridges, in squares, colored asphalt is laid, for example, at the Smolny Cathedral.

Despite our experience, each new application of colored asphalt is exciting. Its cost is much higher than the usual one, and installation requires special preparatory work. For example, it is necessary to carefully clean the equipment from the black bitumen with which it usually works. To prevent asphalt from sticking to the rollers, diesel fuel is used, but in the case of colored asphalt, only soapy solutions are allowed.»

**Olga CHERDANTSEVA, Head of the Competence Center for the Formation of a Comfortable Urban Environment of the Improvement Committee**

«This material provides additional opportunities for architects and landscape designers. It will help create interesting and harmonious

courtyard spaces. If the equipment on the site is made in blue, then the approach to it can also be done in this color. This will allow you to form a whole picture of the yard space, and not a set of disparate landscaping elements.

Colored asphalt can also be used to create pedestrian crossings. Yes, the costs in the moment will be higher, but they are offset by the durability of the material.»

**Denis ZASEDATELEV, General Director of Operational Business of Lenstroytrest Group of Companies**

Colored asphalt concrete is a fairly new material. For example, we are currently working with it on the new lines of our Okla and Yanila projects. It is mainly used in business-class residential complexes. Firstly, this is due to the price: such a road surface is more expensive than a standard one. Secondly, from the very beginning, you

need to understand the semantic load and think over the use of the material at the design stage. Colored asphalt helps architects to realize an important task: to aesthetically and unobtrusively bring together the landscaping of the territory and the entire block.

**Lyubov KOSTINA, Executive Director of the O-KRUG architectural bureau**

We use colored asphalt mix for bike paths, where color highlighting and surface uniformity are important. This coating is suitable not only for cycling, but also for rollerblading.

Rubber pavements are sometimes used for bike paths, but asphalt concrete pavements are more wear-resistant. In addition, in most of the projects of the residential complexes that our bureau is working on, yards without cars are designed. In this case, the bike path is included in the fire lane, so we

also think about the service life of such a coating under traffic loads.

**German MOYZHES, Executive Director of the Let's Go Association**

Colored asphalt pavement improves the comfort and safety of cyclists, and with proper planning, improves the aesthetics of city streets, courtyards and squares. It does not wear out like paint, which means it is also an environmentally friendly solution. The Let's Go Association supports the use of this material in our region.

We believe that it is possible to color-code dedicated lanes for public transport, parking spaces for the disabled and other road sections that should be visually readable.

Given the preserved historical environment of our city, it is necessary, of course, to correctly enter colored areas and asphalt strips in the center.



# Video of laying colored asphalt



Tap the screen to view



# Contacts

+7 (921) 919-71-89

[obakalyuk@abz-1.ru](mailto:obakalyuk@abz-1.ru)

<https://abz-asphalt.ru/>

195009, St. Petersburg, Arsenalnaya str., 66



Website



Export