

ISO 9001:2008

  
**BAUTECH®**

# industrial flooring systems





# DISCOVER THE SECRETS OF MO



## 1. BAUSEAL ENDURO

Clear acrylic resin polymer solution which cures, hardens, seals and dustproofs concrete floors.

## BAUSEAL EKO

Water-based sealer which cures, hardens, seals and dustproofs concrete floors.



## 2. BAUFLEX

Joint sealants.



## 3. MULTITOP

Mineral hardener for concrete industrial floors.

## MULTITOP ENDURO

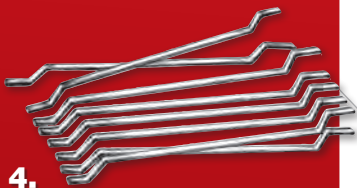
Metallic-siliceous hardener for concrete industrial floors.

## BAUTOP ENDURO

Metallic hardener for concrete industrial floors.

## EXTRATOP ENDURO

Ultrametallic hardener for concrete industrial floors.



## 4. BAUMIX

Steel fibres for concrete reinforcement.

## BAUCON

Polypropylene fibres for concrete reinforcement.



## PROPERTIES/USE

Industrial floor is a construction element that is subject to extreme pressure in the course of usage. Hardened concrete industrial floors BAUTECH® constitute a durable and particularly economical solution of highest technical parameters and mechanical resistance. They eliminate flaws of carelessly designed and made floors which after a couple of years' usage begin to have rough surface, cracks, permanent dirt and begin to dust. Floors BAUTECH® boast a life period of over 20 years which allows the production plant or warehouse to operate efficiently without any special maintenance treatment. The high level of specialization and originality of solutions make it perfectly adjustable to any requirements the investor might have.

These floors have an extremely wide range of usage in garages, workshops, warehouses, logistic centres, production halls and facilities characterized by extreme working conditions such as steel or power plants.

Appropriate certificates allow them to be used in potentially explosive areas as well as in food and pharmaceutical industry facilities.

## TECHNICAL ADVANTAGE

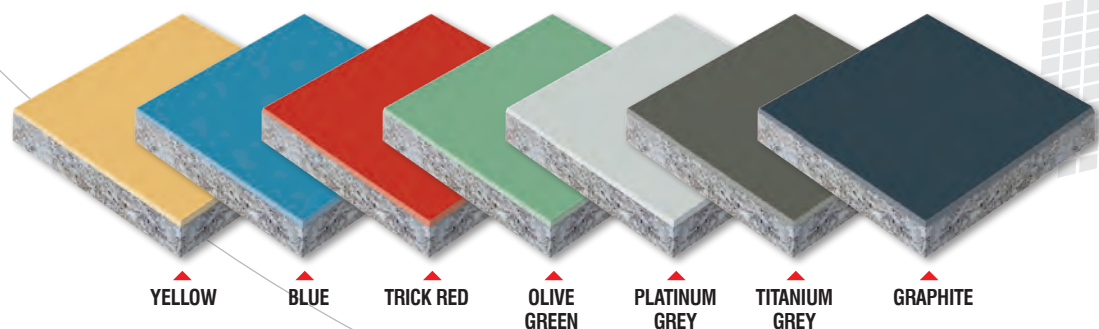
- High abrasion resistance
- High fatigue and impact resistance
- Sealed and dust proof
- Antistatic
- Efficient crack control
- Maintenance free

## ECONOMICAL ADVANTAGE

- Range of colours
- Fast track
- Reduction in slab thickness
- Cost effective
- Long life



## RANGE OF COLOURS





# NOLITHIC FLOORS BAUTECH®

## STAGES OF REALIZATION

**1.** Compacting of concrete slab with truss or float screed.

**2.** Spreading of surface hardener after smoothing of surface by using Bump Cutter Screed

**3-4.** Trowelling by using power trowels

**5.** Spraying of BAUSEAL ENDURO or BAUSEAL EKO sealer

**6.** Cutting of construction and shrinkage joints

**7.** Filling of joints with BAUFLEX JOINT SEALANT SYSTEM

## EXAMPLE PROJECTS



Garages



Manufacturing facilities

Machinery buildings



Warehouses



# DISCOVER THE SECRETS OF PC SCREEDS **BAUFLOOR®**

## 1. **BAUSEAL ENDURO**

Clear acrylic resin polymer solution which cures, hardens, seals and dustproofs concrete floors.



## **BAUSEAL EKO**

Water-based sealer which cures, hardens, seals and dustproofs concrete floors.



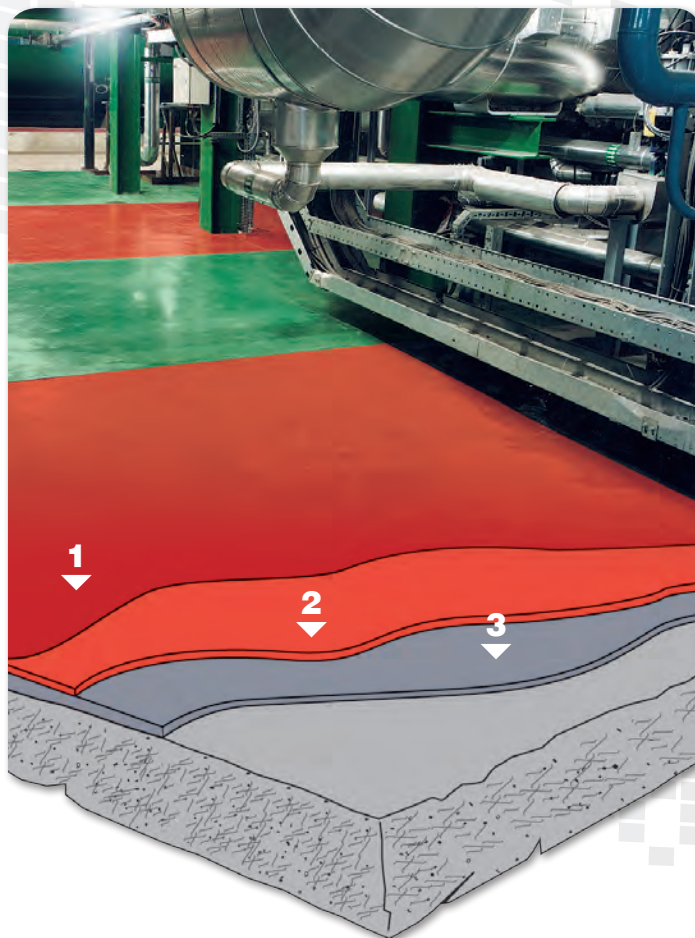
## 2. **BAUFLOOR**

Polymer-cement flooring screed 8-15 mm



## 3. **BAUGRUNT**

Water-based primer



## PROPERTIES

**BAUFLOOR®** – is new, technologically advanced PCC (Polymer-Cement Concrete) flooring screed that has all the advantages of using polymers and cements together. Can be used to renovate old, damaged concrete floors or to provide new hard wearing surfaces. When mixed with water, **BAUFLOOR®** gives a non odour, fluid, non hazardous mortar. Due to functional and aesthetic requirements **BAUFLOOR®** can be finished as a superflat power-troweled surface, spike-rolled or PRESSBETON surface.

**BAUGRUNT** provides maximum flexibility and bond strength when used as primer between concrete surface and **BAUFLOOR®** PCC Flooring Screed.

## PURPOSES

- Manufacturing facilities
- Warehouses
- Workshops
- Garages
- Sidewalks and driveways
- Terraces

## TECHNICAL ADVANTAGES

- heavy duty
- abrasion resistant
- colour range
- \* versatility of applications
- attractive finish
- maintenance free

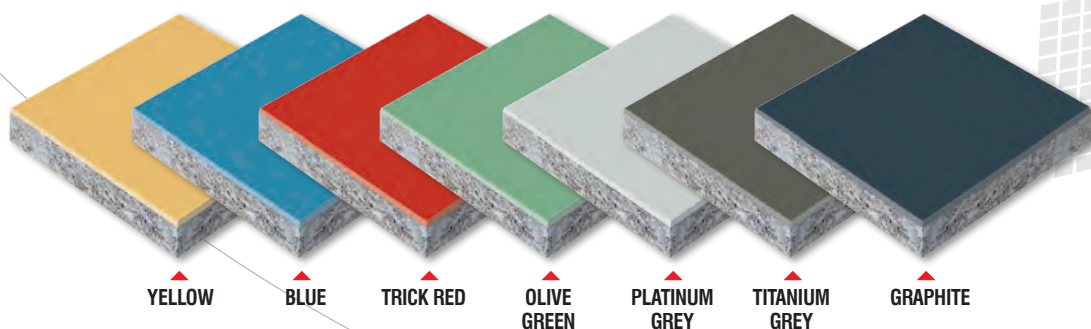
## ECONOMICAL ADVANTAGES

- fast track installation
- maintenance free
- colour as standard
- long life



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## RANGE OF COLOURS





# C FLOORING

## STAGES OF REALIZATION

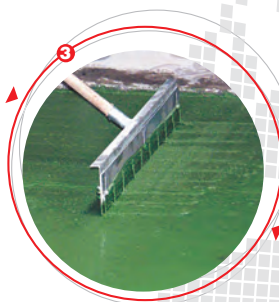
**1.** Priming with BAUGRUNT® primer



**2.** Spilling of BAUFLOOR® screed



**3.** Spreading of BAUFLOOR® screed by using floor scraper



**4a.** BAUFLOOR® rolled – "orange peel" effect



**4b.** BAUFLOOR® trowelled



**4c.** BAUFLOOR PRESSBETON®

**5.** Spraying of BAUSEAL EKO® or BAUSEAL ENDURO® sealer



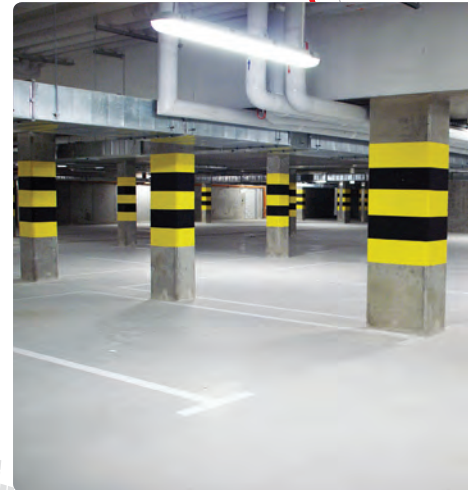
**6.** Filling of joints with BAUFLEX JOINT SEALANT SYSTEM®



## EXAMPLE PROJECTS



BAUFLOOR® rolled – "orange peel" effect



BAUFLOOR® trowelled



BAUFLOOR® trowelled



BAUFLOOR® trowelled



BAUFLOOR® PRESSBETON®



BAUFLOOR® PRESSBETON®



# DISCOVER THE SECRETS OF D SCREEDS **TERRAFLOOR®**

## 1. TERRACOAT



State-of-the-art, highly advanced compound based on lithium silicate and modified copolymers to be used on concrete surfaces and cement flooring screeds.

## 2. TERRASEAL



High-performance chemical curing agent, hardener, sealer for polished concrete surfaces.

## 3. TERRATOP



Polymer-cement decorative screed 15-30 mm

## 4. BAUBOND

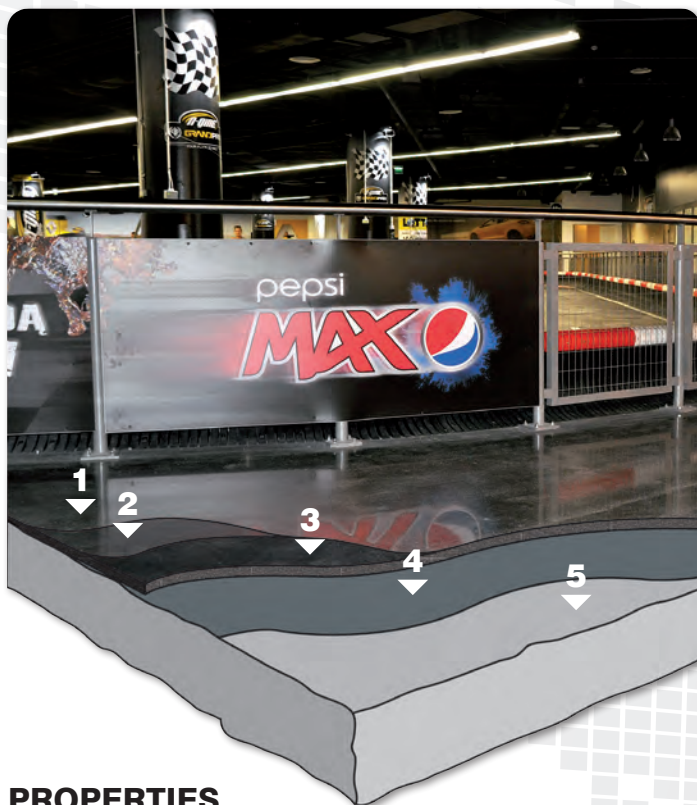


Polymer-cement bonding mortar

## 5. BAUGRUNT



Water-based primer



## PROPERTIES

The revolutionary decorative system of polished cement screed imitating granite or marble but surpassing them in terms of the design and color capabilities. The use of nanotechnology provides a mirror finish surface and high resistance to abrasion, chemical attack, UV radiation, stains and makes it easy to clean. The very rich colors allows to tailor to both individual client needs and the specific nature of the object. To be used on old and newly made concrete floors

## ADVANTAGES

- look similar to granite, marble, etc
- mirrorlike smoothness and gloss
- easy to clean
- long life
- easy implementation
- high chemical and mechanical resistance
- wide range of colours

## PURPOSES

- apartments
- shopping centers
- shops
- manufacturing facilities
- schools, airports, railway stations
- auto showrooms
- sacred objects



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## RANGE OF COLOURS

## BASALTIC AGGREGATE

MARTIAN DUST

RED PLANET

WELCOME SPRING

BAKED RED

OCEAN BLUE

FROZEN LAVA

AMAZON GREEN

GREY MOSAIC

RIPENING OLIVE

DESERT BEIGE

EGYPTIAN STONE

STARLIT SKY

CLOUDLESS SKY

ROMAN MOSAIC

## QUARTZ AGGREGATE



# ECORATIVE, POLISHED

## STAGES OF REALIZATION

1. Preparing of concrete base



2. Priming with BAUGRUNT® primer



3. Spreading of BAUBOND® bonding mortar



4. Spreading of TERRATOP screed



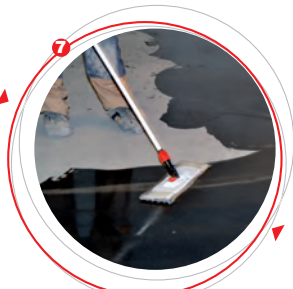
5. Trowelling by using power trowel to obtain smooth surface



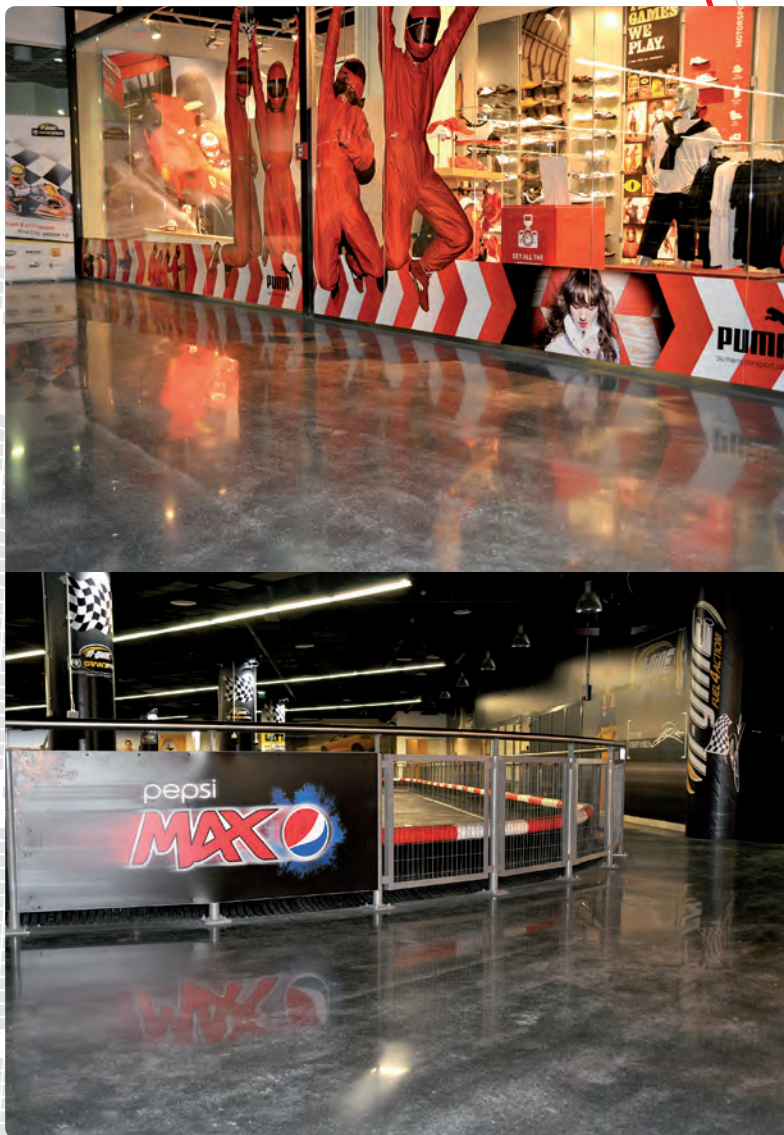
6. Polishing by using planet grinders with TERRASEAL®



7. Application of TERRACOAT and polishing for extra shine and sealing of the floor



## EXAMPLE PROJECTS



Karting track





# DISCOVER THE SECRETS OF EP

## COMPONENTS OF THE SYSTEMS:



### 1. BAUPOX 100 ST BAUPOX 100 STR

Universal, colourless epoxy resins for technical uses

### 2. QUARTZ SAND

### 3. BAUPOX 200

Two-component, pigmented epoxy resin with the addition of mineral fillers

### BAUPOX 400

Two-component colourless epoxy resin

### BAUPUR 500

Colourless polyurethane varnish for finishing layers

## ADVANTAGES:

- high chemical and abrasion resistance
- wide range of colours
- easy to keep clean
- may be laid in very thin layers
- various anti-slip classes



## INDUSYSTEM®

### BAUTECH TL SYSTEM

A thin-layer flooring system for industrial and public facilities subject to pressure corresponding to light and medium conditions of wheel transport and periodical pedestrian traffic.

### BAUTECH SL SYSTEM

A self-spilling flooring system for industrial and public facilities subject to pressure corresponding to medium and heavy conditions of wheel transport and intensive pedestrian traffic.

### BAUTECH SR SYSTEM

Anti-slip flooring system filled with natural quartz aggregate. For industrial and public facilities subject to pressure corresponding to medium and heavy conditions of wheel transport and intensive pedestrian traffic.

## DECOSYSTEM®

### BAUTECH COLORID SYSTEM

A decorative flooring system on the basis of colour acrylic chips to be used in public facilities, staff rooms, back rooms and technical areas.

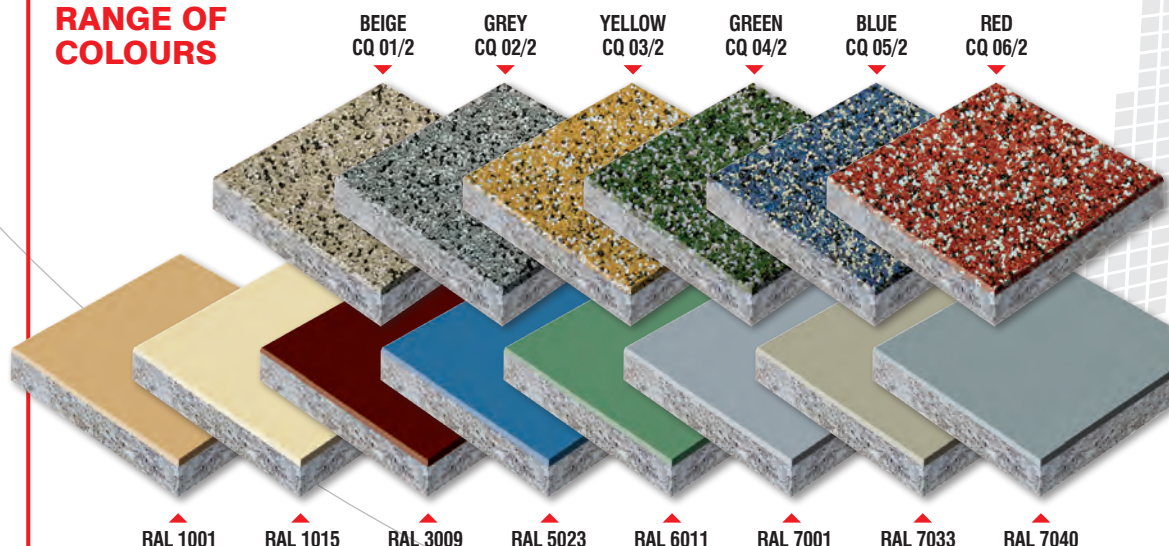
### BAUTECH CYDRYT SYSTEM

A decorative flooring system on the basis of colour polyester fillers imitating the effect of natural stone, to be used in public facilities, staff rooms, back rooms and technical areas.

## PARKINGSYSTEM®

Specialist, stiff flooring system with anti-slip properties. To be used in internal garage and parking facilities subject to pressure typical to wheel traffic – passenger cars, technical vehicles and trucks.

## RANGE OF COLOURS





# OXY FLOORS **BAUPOX®**

## PROPERTIES

Epoxy floors are used wherever special chemical resistance is needed. Their aesthetic and original look makes them a popular solution used in public facilities of all kind. The attractive colour patterns and the possibility to use colour chips and sands gives designers new possibilities while the floor itself will give a unique character to any interior. The versatility of epoxy floors is unquestionable - from repair halls to parking lots, laboratories, food industry to the arrangement of kitchens and bathrooms.

## STAGES OF REALIZATION



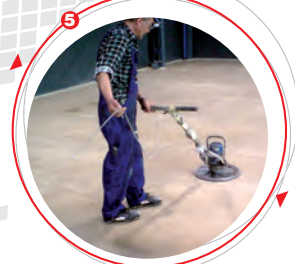
1. Preparation of concrete base by blasting, milling or grinding

2. Application of grounding layer **BAUPOX 100**



3. Pouring quartz sand

4. Application of a layer of colour epoxy resin **BAUPOX 200**



5. Trowelling of **BAUTECH COLOR QUARTZ** system

6. Application of colourless finishing layer **BAUPOX 400**



## EXAMPLE PROJECTS



Industrial system **INDU SYSTEM**



Parking system **PARKING SYSTEM**



Decorative system **DECO SYSTEM**



# DISCOVER THE SECRETS OF NA

## BAUTECH FORMULA



Silicate and polymer based compound for curing, strengthening and sealing of concrete surfaces. Water-based solution of silicates of selected alkali metals that chemically modifies the surface of concrete floors.

## NANOSEAL



Lithium and polymer based compound for curing, strengthening and sealing of concrete surfaces.

The most advanced technology using elements of NANOTECHNOLOGY® of polymer, silicate and lithium compounds of the highest silicate modules allows to obtain a highly-resistant cement matrix of extreme physical and chemical properties thanks to the penetration and strengthening of concrete at the molecular level.

## NANOCOAT



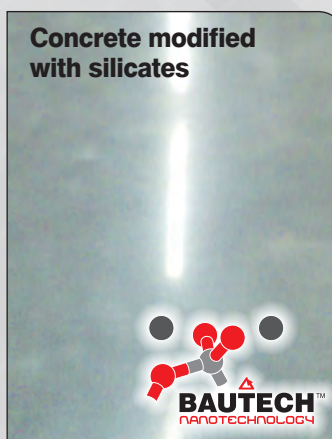
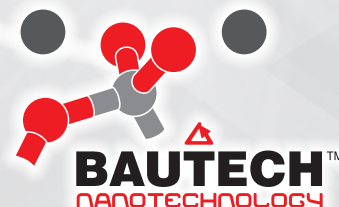
Silicate and polymer based polishing and protecting compound



# NANOTECHNOLOGY

## WHAT IS NANOTECHNOLOGY?

It is a set of techniques and ways of creating various structures in nano size (0.1 – 100 nanometres), i.e. at the level of individual atoms or particles.



## EXAMPLES OF APPLICATIONS

Plastics the structure of which is controlled at the level of individual particles. This allows for example to produce materials of unique mechanical properties.

Thanks to the penetration and hardening of concrete in molecular structure, it allows to obtain a highly resistant cement matrix of extreme physical and chemical properties.

## Advantages of using silicates of alkali metals:

- strengthening of the floor surface
- proper maintenance
- perfect penetration
- better abrasion resistance
- durability
- elimination of dust and efflorescence
- improvement of the condition of old concrete floors
- small production down times
- easy maintenance

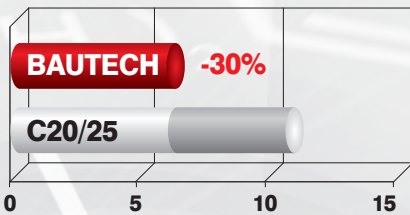




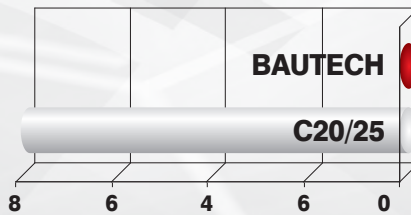
# NOTECHNOLOGY BAUTECH®

## ADVANTAGES OF USING BAUTECH NANOTECHNOLOGY PRODUCTS

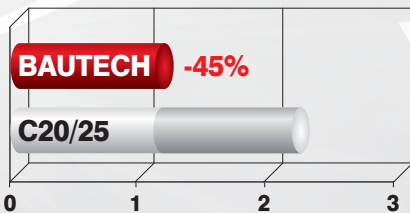
Abrasion resistance (Boehme's test)  $\text{cm}^3/50 \text{ cm}^2$



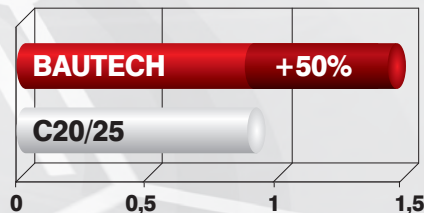
Oil permeability, in mm



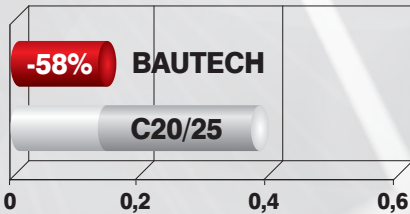
Drying time,  $\text{g}/\text{m}^2\text{h}$



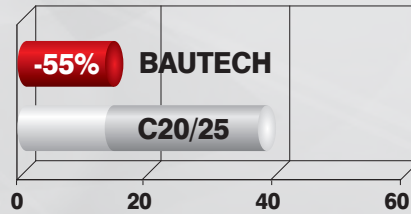
Resistance to impact,



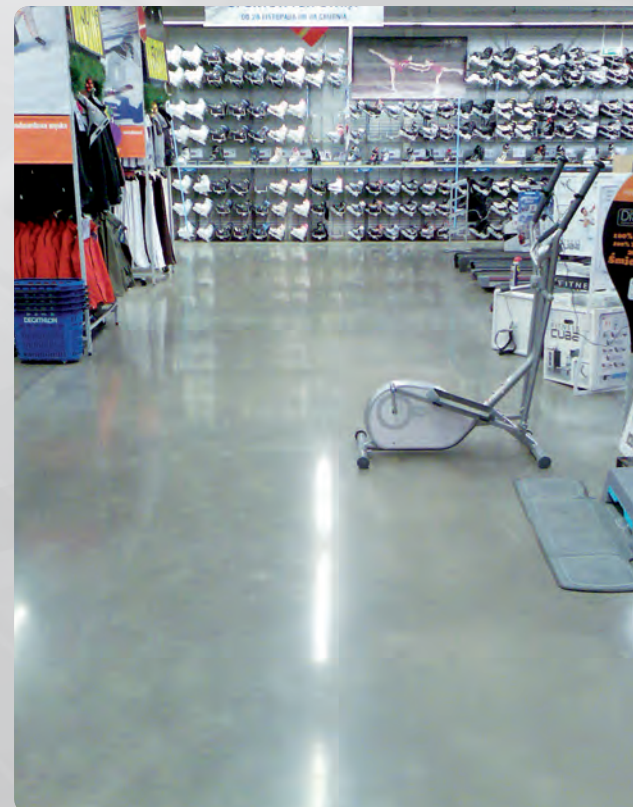
Surface absorbability,  $\text{kg}/(\text{m}^2 \times \text{h}^{0.5})$



Moisture absorbability after 24 hours



## EXAMPLE PROJECT





# GALLERY OF PROJECTS



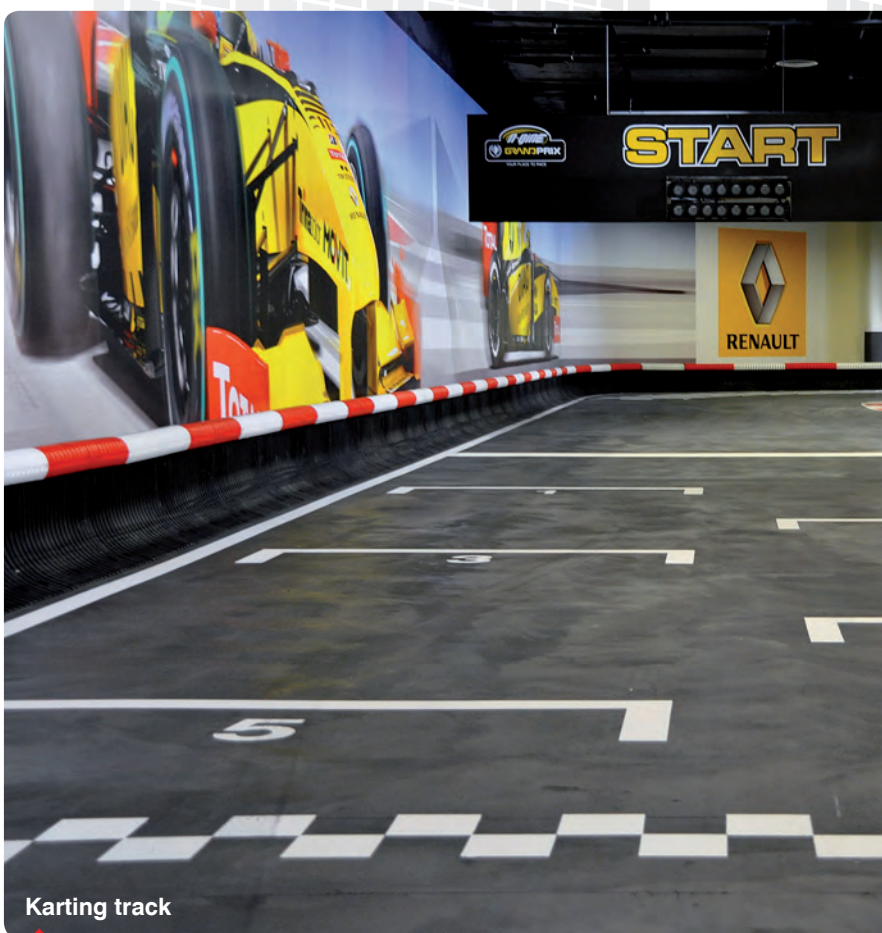
Metallurgical plant



Storage field



Production hall



Karting track



Fire brigade garage



Storage field





Karting track



Warehouse



Multi-storey car park



Fruit and vegetable storage facility



Cold store



# GALLERY OF PROJECTS



Supermarkets



Manufacturing facility



Power station



Warehouses





Underground garages



Supermarket GOODWILL Tbilisi Georgia



Production hall



► **INDUSTRIAL FLOORS**

- concrete floors BAUTECH<sup>®</sup>
- PCC screeds BAUFLOOR<sup>®</sup>
- epoxy floors BAUPOX<sup>®</sup>

► **POLISHED FLOORS  
BAUTECH NANOTECHNOLOGY**

► **REINFORCING FIBRES**

- Steel
- Polypropylene

► **SEALERS AND PAINTS**

- Acrylic
- Siliceous
- Epoxy

► **DECORATIVE SCREEDS TERRAFLOOR<sup>®</sup>**

► **DECORATIVE PAVEMENTS PRESSBETON<sup>®</sup>**

► **RENOVATION, MAINTENANCE AND CURE PRODUCTS**

► **JOINT SEALANT SYSTEMS BAUFLEX<sup>®</sup>**

► **PROFESSIONAL EQUIPMENT BLACKLINE<sup>®</sup>**

- Vibrating screeds
- Power trowels

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