

CONCRETE

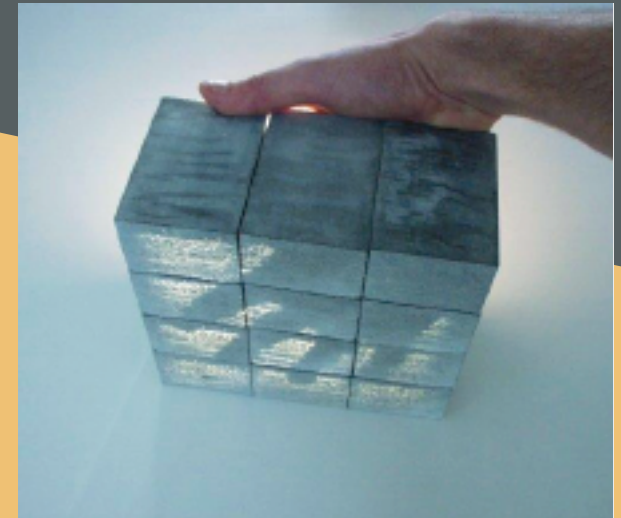
translucent



translucent concrete
in modern architecture



Translucent concrete (light-transmitting concrete)



A word "concrete" usually associates with grey rough construction material. It's surface is rough, unremarkable and normally needs to be lined with any decorative matter. It's not anymore. Today, concrete is a material for realization of all daring architectural and designing solutions.

How could unimpressive and toneless concrete become a decorative material? It happened because of new technologies and possibilities that made concrete photoconductive.

Light-transmitting concrete is a composite material, made from high-strength cement, complex of plasticizers, marble crumb, artesian water and hundreds of thousands fiber threads that transmit the light.

Mainly Translucent Concrete has all the features of conventional concrete:

- Waterproofing
- Heat-proofing
- Sound-proofing

And many more, that you know already.

Translucent concrete – new surface for designers and architects from all around the world.

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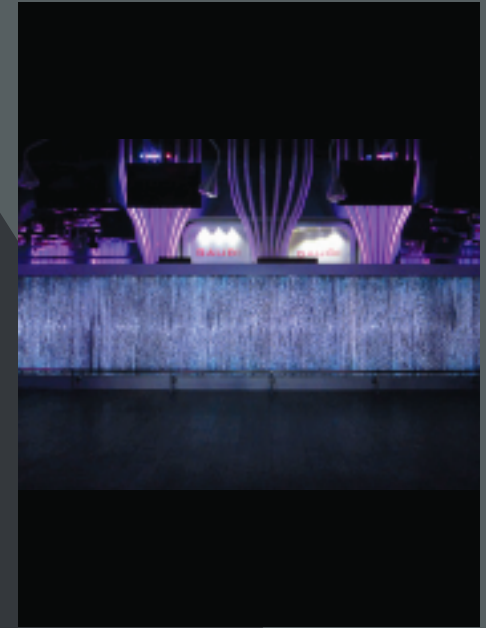
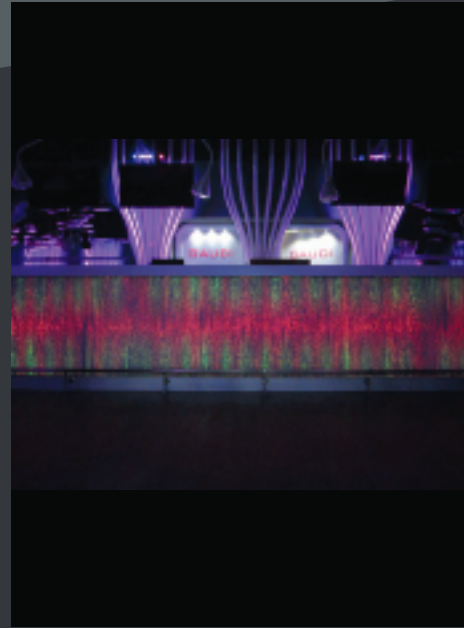
How concrete transmits light?

Light-transmitting effect is achieved through optical fiber that is mixed into the concrete. Optical fiber transmits light with minimal losses so the transparency of the concrete do not change depending on the thickness, no matter is it 10mm slab or 500 mm block.

If optical fiber is 0,25 mm thick – you can see shadows and the silhouettes of the objects that are near the concrete by the other side. If thickness is 1 mm - 3 mm you can see colors of the objects that are behind the "concrete curtain".

Visible points of optical fiber can be "scattered" on the surface in different ways: chaotically, wavy, straight, horizontal, vertical orders. It is also available to put a picture or inscription by optical fiber.

In the mass, only 5% of optical fiber, but we can increase this percentage to solve design challenges.



Color concrete illumination

Light-transparent concrete can be as stained glass – be exposed by the natural light, or by hidden RGB illumination behind the surface.

During project implementation, our company's specialists will individually select the thickness of the fibers and the brightness of backlight. Due to interactive technology, and the ability to change the colors and information tickers. Control is possible from the system of "smart house", radiportal, wall touch blocks or from the mobile phone.

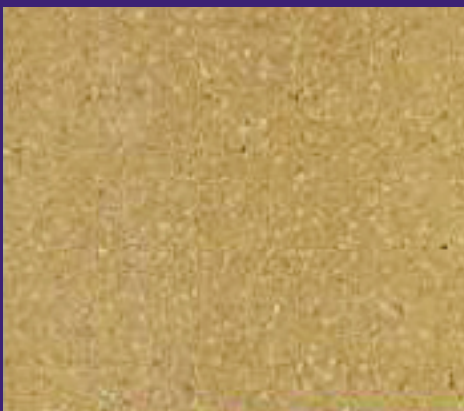
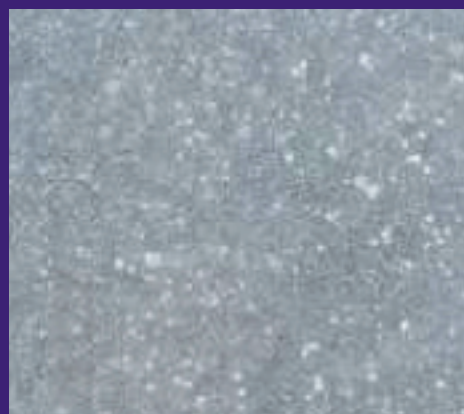
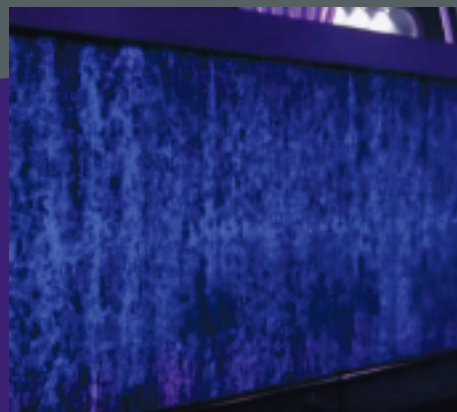
Waterproof lighting systems allow you to apply light effects in fountains, swimming pools, saunas, showers. With a backlight you can turn the bar out of the ordinary in a color-musical, making it an interactive element of interior.

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Color surface

The material has a texture comparable to polished natural stone, this fact puts light-transmitting concrete in a number of decorative materials, allowing to use widely in finishing works. The texture of this concrete is smooth, tactilely pleasing. With the help of plasticizers, if necessary, can be completely removed all of irregularities and cavities from the surface.



Translucent concrete can have different color range.
Shade you can choose according to RAL color table.
Most popular finish: Sandstone, yellow, red marble, red, green.

Standard, base color:

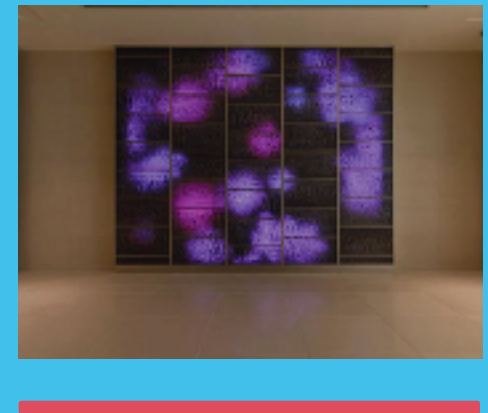
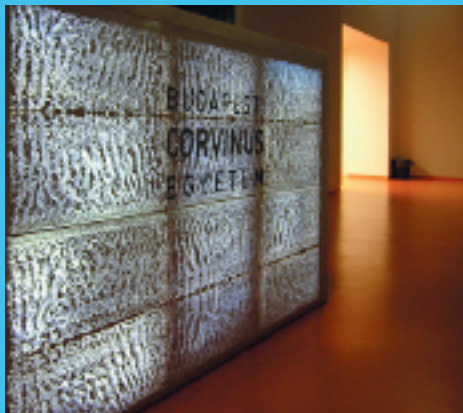
- gray concrete
- beige travertine
- brown marble

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Interiors

Applications of light transmitting concrete: bearing walls and interior partitions, wall cladding input groups and elevator lobbies, bar counters and reception desk, columns, stair steps, table tops, fountains, fireplaces, decorative lamps and much more.



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For the company Bistone project "Light transmitting concrete" became a new and promising direction. As one of the oldest companies in Moscow working with natural stone, Bistone offers professional approach to this new material. Production and installation of light transmitting concrete is not different from the technologies of working with natural stone.



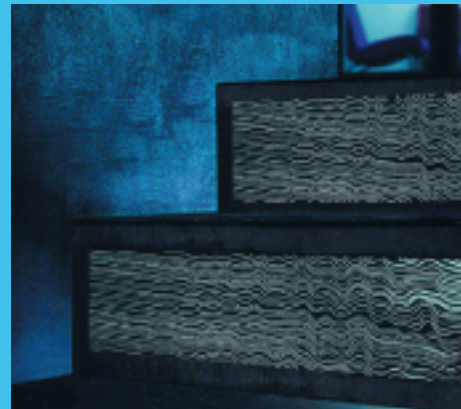
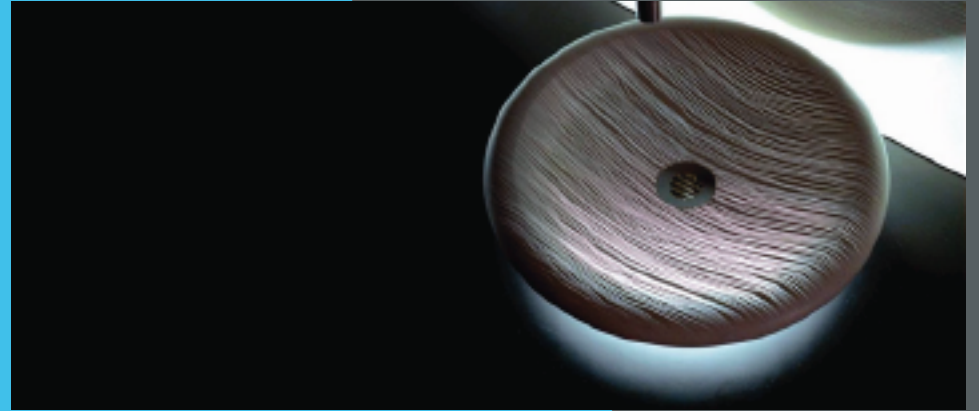
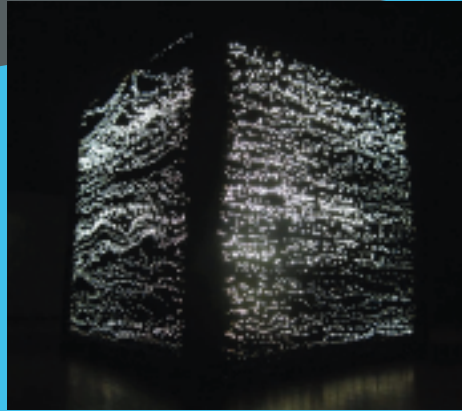
The company Bistone offers a full amount of works:

- participate in the development of the design and the design project
- supply of light transmitting concrete
- selection of lighting equipment
- fabrication and installation of metal substructure
- installation of lighting equipment
- installation of concrete slabs and blocks



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Color surface

In town landscaping environment light transmitting concrete is a godsend. This material completely resistant to 150 cycles of freezing-defrosting, acid precipitation and downtown air. Besides, like any concrete, our material is leading in anti-vandal characteristics.



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Facades

For the facades can be used 20-30mm standard panels or big construction blocks up to 500mm. Concrete is fixed on the facade by classic "wet" method and on the substructure of the ventilated facade.



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Fences

Our exclusive offer – a system for interactive illumination of the supporting pillars of the fence, at night it turns ordinary fence into illuminative art object.



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Prices of Bistone are out of competition

Last, and maybe most important in this presentation: light transmitting concrete is produced in Russia and therefore its cost is lower than European counterparts in 3 times!



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