



2018
catalogue



innovacrete
innovative solutions for concrete





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May 2018
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The heraclex® technology

Heracles, hero of the greek mythology, famous for his extraordinary strength and fatigue resistance.

Ultra innovative cement-based materials can be obtained by using HERACLEX®, spearhead of the technology developed by INNOVAcrete, thanks to the extraordinary synergy developed among its components (patent-protected).

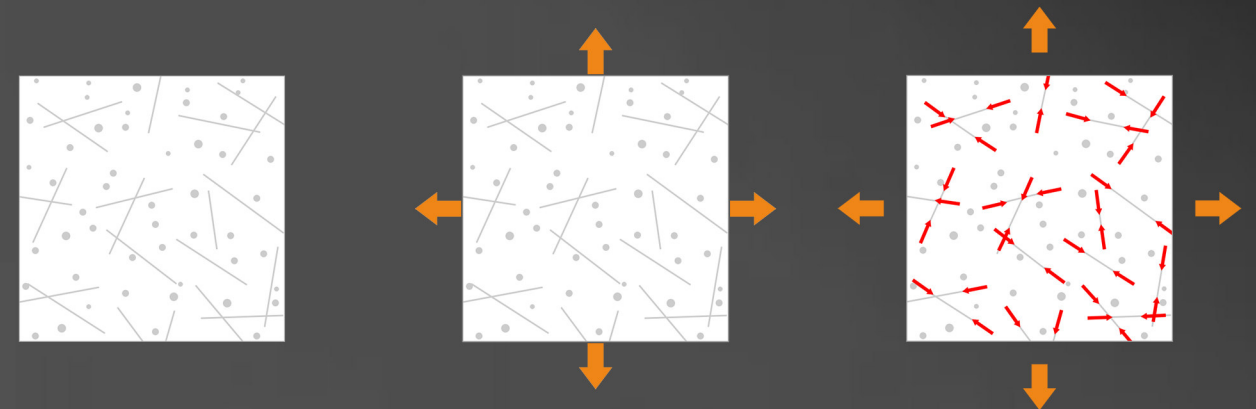
THE USE OF HERACLEX ALLOWS TO:

- Avail of a new material with outstanding properties
- Expand ad renew the range of products
- Adapt to the market trends
- Produce at lower cost products
- Higher quality and durable manufactures
- Use non-toxic and eco-friendly materials

The application fields include several sectors as infrastructure engineering, hydraulic engineering, urban furniture design as well as interior design and, finally, crafts.

HOW DOES IT WORK:

In the cement-based materials prepared with the HERACLEX® technology, the cementitious matrix, chemically activated, tends to expand, and its expansion is restrained by the fiber-reinforcement.



This interaction produces a mutual action between fiber and matrix (self-prestress), which is responsible for higher strengths in tension and bending.



heraclex[®] des_1.0 *for Ultra High Performance Concrete (UHPC)*

The **Heraclex[®] des_1.0** is a compound suitably studied for obtaining a cement-based composite material showing **very high mechanical performance**, **self-compactability** and **excellent durability**.

The content of the Heraclex[®] des_1.0 bag must be added to sand, cement, fibres and water to obtain a customized formulation.

Thanks to the technical support of INNOVAcrete on the concrete mix design, the fibre reinforced concrete mixture obtained by using Heraclex[®] des_1.0 guarantees outstanding technical-structural performances, which offer many degree of **freedom to designers** for realizing innovative shapes and original finish in the field of both urban and interior design.

The optimized mix design will be different for each customer, and tailored to meet his specific needs.

Technical data

State: Powder

Colour: Ivory

Apparent density: max. 0.700 kg/dm³

Grain size: min. 98 % < 0,600 mm

Content in chloride: max 0,05%

Humidity: max. 6 %

Water solubility: partially soluble

Temperature of use: > 0°C

Storage: dry and protected place

Validity: 12 month from delivery

designed for



heraclex® life100_1.0

for Long Life Concrete (LLC)

The **Heraclex® life100_1.0** is a compound suitably studied for obtaining a cement-based composite material showing **excellent durability** under several severe environmental conditions.

The content of the Heraclex® life100_1.0 bag must be added to sand, cement, fibres and water to obtain a customized formulation.

Thanks to the technical support of INNOVAcete on the concrete mix design, the fibre reinforced concrete mixture obtained by using Heraclex® life100_1.0 guarantees outstanding durability performances under **freezing and thawing cycles** and **exposition to chlorides**.

The optimized mix design will be different for each customer, and tailored to meet his specific needs.

Technical data

State: Powder

Colour: Ivory

Apparent density: max. 0.700 kg/dm³

Grain size: min. 98 % < 0,600 mm

Content in chloride: max 0,05%

Humidity: max. 6 %

Water solubility: partially soluble

Temperature of use: > 0°C

Storage: dry and protected place

Validity: 12 month from delivery

designed for





heraclex® life200_1.0

for Ultra Long Life Concrete (ULLC)

The **Heraclex® life200_1.0** is a compound suitably studied for obtaining a cement-based composite material showing **excellent durability** under several severe environmental conditions as well as **excellent mechanical performances**.

The content of the Heraclex® life200_1.0 bag must be added to sand, cement, fibres and water to obtain a customized formulation.

Thanks to the technical support of INNOVAcrete on the concrete mix design, the fibre reinforced concrete mixture obtained by using Heraclex® life200_1.0 guarantees outstanding durability performances under **freezing and thawing cycles** and **exposition to chlorides** as well as excellent compressive and bending strengths and high **abrasion resistance**.

The optimized mix design will be different for each customer, and tailored to meet his specific needs.

Technical data

State: Powder
Colour: Ivory
Apparent density: max. 0.700 kg/dm³
Grain size: min. 98 % < 0,600 mm
Content in chloride: max 0,05%
Humidity: max. 6 %
Water solubility: partially soluble
Temperature of use: > 0°C
Storage: dry and protected place
Validity: 12 month from delivery

designed for



 **+39 349 781 2652**

 **info@innovacrete.it**

 **www.innovacrete.it/en**

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