Ice rink made of SIMONA® Eco-Ice® Sheets

Based in Switzerland, Greenice supplies mobile and multifunctional ice-rinks made of plastic sheets for indoor and outdoor use – covering everything from planning to execution. In order to demonstrate the cost- and energy-saving credentials of the new technology to prospective customers, Greenice has set up its test rink in Reinach. The surface is made of SIMONA® Eco-Ice® Sheets.

The project at a glance

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<th>Project</th>
<th>Ice rink with perimeter boards made of SIMONA® Eco-Ice® Sheets as a test facility in Reinach</th>
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<td>Ice rink dimensions</td>
<td>8 x 20 m (160 m²)</td>
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<td>Time to assemble (with boards):</td>
<td>6 to 8 hours</td>
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<td>Requirements</td>
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<td>UV stability</td>
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<td>Client</td>
<td>Greenice – International Cooperation, Laufen, Switzerland</td>
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<td>Technical support and production of sheets</td>
<td>SIMONA AG</td>
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<td>SIMONA® Eco-Ice® Sheets made of PE</td>
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SIMONA® Eco-Ice® – premium-quality artificial ice-rinks

Initial situation
A test rink was installed in Reinach for the purpose of demonstrating the superb quality and low-friction properties of the artificial surface to prospective customers. In contrast to conventional ice-rinks, the SIMONA® Eco-Ice® solution requires no cooling pipes for ice production. Therefore, the artificial rinks can be run at just 10% of standard operating costs, as well as being suitable for use in all temperatures.

Task
In addition to offering excellent gliding properties, the plastic surface also had to meet the following requirements:
- UV and weather stability for year-round outdoor use
- Simple to process and install
- High wear resistance spanning many years
- Good chemical resistance to detergents
- Excellent value

Solution
After a number of tests with sheets from various manufacturers, Greenice teamed up with SIMONA to develop an artificial ice-rink surface of the best possible quality. The low-friction surface properties of SIMONA® Eco-Ice® are comparable to those of freshly cleaned ice. What is more, SIMONA® Eco-Ice® is available in various forms of polyethylene, including PE-HD (high heat stability), PE-HMW (high molecular weight) and PE-UHMW (ultra-high molecular weight), and can thus be used for a wide range of ice-rink applications. Furthermore, SIMONA® Eco-Ice® is suitable for both indoor and – when supplied with UV-stabilisation – outdoor use – throughout the year. Thanks to a specially developed tongue-and-groove system, assembly of the rink takes no time at all.

Having presented its test rink to a number of potential customers, Greenice has already installed several ice-rinks for leisure purposes and professional use.

Further information
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SIMONA® Eco-Ice®

Properties
- Low-friction surface
- Homogeneous surface finish
- High wear resistance
- Physiologically safe as per BfR, FDA and EU
- Good chemical resistance to detergents
- Simple to use
- UV-stabilised (special design with 10-year warranty)
- Suitable for almost all temperatures

Areas of application
- New and refurbished arenas
- Training surfaces for figure-skating and ice-hockey
- Ice rinks for special events
- Ice rinks for theme parks and hotels
- Mobile ice-rinks
- Multifunctional use

SIMONA® Eco-Ice®

Left to right: SIMONA® Eco-Ice® sheets are connected like a jigsaw puzzle by means of milled tongue and groove joints; the ice rink is suitable for standard ice skates; bird’s-eye view of the completed ice rink.