



WORLDWIDE PARTNER

HIGH-PERFORMANCE SUSTAINABLE SOLUTIONS

THE SCIENCE OF WARM

The average temperature in PyeongChang in February is 1-2°C (33-35°F). For warmth, energy efficiency and sustainability, walls and roofs must be equipped with exceptional insulation. Several of the buildings at the Olympic Winter Games PyeongChang 2018 will feature technologies from Dow that increase energy efficiency by keeping warm air in, and cool air and moisture out. PIR (polyisocyanurate) panels incorporating Dow PAPI™ Polymeric MDI are used to insulate the walls and roofs of the International Broadcast Centre and Modular Houses. [Dow Corning® 1001 Perimeter Silicone Sealant](#) fills and seals gaps between walls and doors or window frames at the International Broadcast Centre, the Olympic Village and Modular Houses to help prevent cold air from seeping through the cracks.

THE SCIENCE OF COOL

The Olympic Sliding Centre and four Olympic ice venues utilize Dow technologies to maintain the cold temperature and consistency of the ice. A polyurethane spray foam made with Dow VORANOL™ Polyether Polyols and PAPI™ Polymeric MDI insulates the ice in the Sliding Centre, keeping it from melting by providing reliable temperature regulation for the luge, bobsleigh and skeleton competitions. Four ice rinks also use [DOWTHERM™ Heat Transfer Fluids](#) to maintain ice surface temperatures and consistent skating dynamics.

THE SCIENCE FOR DRY

The slabs and roofs of the International Broadcast Centre and the Olympic Plaza are protected from costly water damage by Dow's waterproof solutions, including VORANOL™ and ISONATE™ polyurethane coating technology and VORASTAR™ coating technology.



DOW AT THE OLYMPIC WINTER GAMES PYEONGCHANG 2018

There is a significant amount of science and innovation that goes into helping make the most iconic global sporting event smarter, better and safer than ever before. As a Worldwide Olympic Partner and the Official Chemistry Company of the Olympic Games, The Dow Chemical Company – a subsidiary of DowDuPont Inc. – is helping drive greater levels of performance and sustainability at the Olympic Winter Games PyeongChang 2018. From making sporting venues and official event housing energy efficient and comfortable, to creating ideal ice surfaces for competition, Dow is helping to deliver infrastructure that facilitates better experiences for athletes and fans alike.



WORLDWIDE PARTNER

THE SCIENCE OF TRAVEL

Parts of the Yeongdong Expressway connecting Seoul with PyeongChang are now marked with traffic paint powered by FASTRACK™ Quick-Set Technology. FASTRACK™ Technology retains glass beads and retro-reflectance longer than solvent-borne traffic markings, helping lane markings appear clearer to drivers during the drive from the capital city to the Olympic Winter Games PyeongChang 2018. Developed by Dow Coating Materials to facilitate the conversion from solvent-borne to waterborne traffic paint, [FASTRACK™ Technology](#) helps accelerate the dry time of waterborne traffic paint, even under adverse weather conditions and helps dramatically reduce volatile organic compound (VOC) emissions.

THE SCIENCE OF COMFORT

Dow VORANOL™ Polyether Polyols is used for some of the mattresses in the Olympic Village. The technology is integrated into the polyurethane slab foam, so Olympic Winter Games athletes can rest in a comfortable sleeping environment. VORANOL™ Polyether Polyols is also employed in a number of mattresses in hotels across PyeongChang.



NOTICE: No freedom from infringement of any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. The product shown in this literature may not be available for sale and/or available in all geographies where Dow is represented. The claims made may not have been approved for use in all countries. Dow assumes no obligation or liability for the information in this document. References to "Dow" or the "Company" mean the Dow legal entity selling the products to Customer unless otherwise expressly noted. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

Learn more at www.dow.com/olympic-partnership

Media Contact: LINDA LIM | Dow Olympic & Sports Solutions
llim2@dow.com | +65.9626.7662

**High-resolution photography available upon request*

®Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow