Jeju Shinhwa World

Discover how Armacell's technical insulation solutions provide reliable condensation control and contribute towards long-term energy efficiency in South Korea's exciting world-class integrated resort. **Armacell in action.**

www.armacell.com





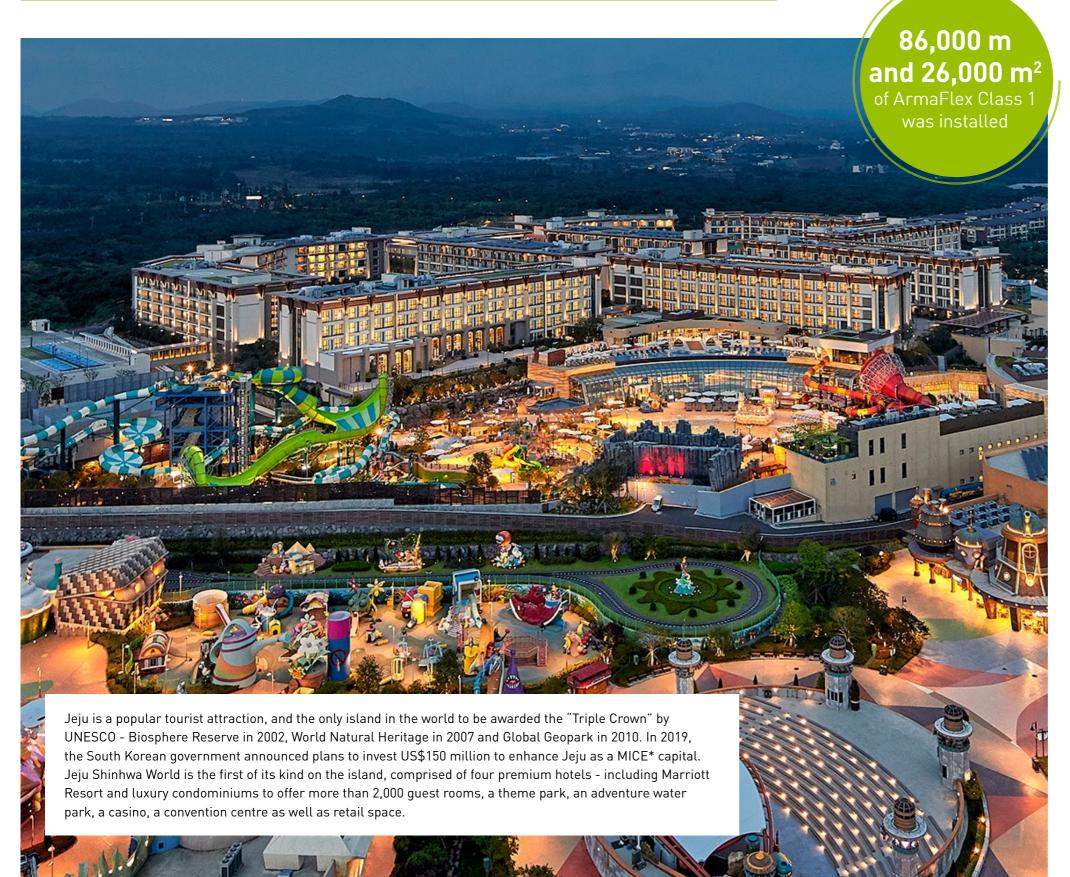






// ARMACELL IN ACTION //

RELIABLE CONDENSATION CONTROL AND LONG-TERM ENERGY EFFICIENCY



Located on Jeju island in South Korea, Jeju Shinhwa World is an exciting travel destination that spans a land area of about 2.5 million square metres and cost about US\$2.5 billion in development. The project opened progressively from the beginning of 2017 and the second phase of construction has commenced. Jeju is a popular tourist destination and with further plans to position the island as a MICE* capital, Jeju Shinhwa World is at the centre of this development, and expectations - as well as energy demands - on a project of this magnitude is very high.

Heating, ventilation and air-conditioning (HVAC) systems play a central role in supporting the comfort and safety of indoor environments. It pushes air through ducts that run through walls, ceilings and floors to circulate air, while chilled water pipe systems help to moderate the temperature conditions. Plus, it can either help to defend against or contribute to indoor air quality. The right insulation material for an air-handling system must resist moisture while ensuring that the air passing through it remains mould-, dust- and fibre-free. Conventional materials could absorb moisture and potentially support growth of mould and mildew or particulate fibres into the indoor air, significantly degrading the indoor environment.

Insulation of ducting and piping systems is one of the easiest and most cost-effective means of saving energy. Engineers for the project knew that flexible elastomeric foam insulation was the ideal material for HVAC applications, trusting it to provide reliable condensation control and support for long-term energy efficiency. It was also important for them that the material used in this project met with the Korean Standards (KS) - a national standard deliberated by the Industrial Standardization Council in accordance with the Industrial Standardization Law of the country. Armacell's representatives regularly met with project stakeholders to provide technical advice, including identifying the right insulation thickness for different applications of varying operating conditions. They also proposed the use of complementary accessories, such as ArmaFlex 850 adhesive and tapes to further enhance operational reliability and aesthetics. A total of 86,000 metres of ArmaFlex Class 1 tube insulation and 26,000 square metres of ArmaFlex Class 1 sheet insulation was supplied to this prestigious project.

Project: Jeju Shinhwa World

Location: Seogwipo City, Jeju Island (South Korea)

Developer: Landing Jeju Development Co., Ltd.

Construction Manager: HanmiGlobal Co., Ltd. and Hanil Mech.Elec.

Consultants

Contractor: Hyundai Engineering and Construction and Daelim Industrial

*MICE - Meetings, incentives, conferences and exhibitions

All data and technical information are based on results achieved under the specific conditions defined according to the testing standards referenced. Despite taking every precaution to ensure that said data and technical information are up to date, Armacell does not make any representation or warranty, express or implied, as to the accuracy, content or completeness of said data and technical information. Armacell also does not assume any liability towards any person resulting from the use of said data or technical information. Armacell reserves the right to revoke, modify or amend this document at any moment. It is the customer's responsibility to verify if the product is suitable for the intended application. The responsibility for professional and correct installation and compliance with relevant building regulations lies with the customer. This document does not constitute nor is part of a legal offer or contract. By ordering/receiving product you accept the Armacell General Terms and Conditions of Said applicable in the region.

At Armacell, your trust means everything to us, so we want to let you know your rights and make it easier for you to understand what information we collect and why we collect it. If you would like to find out about our processing of data, please visit our **Data Protection Policy**.

© Armacell, 2020. All rights reserved. Trademarks followed by ® or M are trademarks of the Armacell Group. Photos supplied by Jeju Shinhwa World and used with permission.

00307 | Jeju Shinhwa World | ArmaElex | JobStory | 072020 | APAC | FN-MASTER

ABOUT ARMACELL

As the inventors of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal, acoustic and mechanical solutions that create sustainable value for its customers. Armacell's products significantly contribute to global energy efficiency making a difference around the world every day. With 3,135 employees and 24 production plants in 16 countries, the company operates two main businesses, Advanced Insulation and Engineered Foams. Armacell focuses on insulation materials for technical equipment, high-performance foams for high-tech and lightweight applications and next generation aerogel blanket technology.

