

PROJECT

Dow Corning silicone sealants were used in the development of the curved curtain wall façade of China's National Centre for the Performing Arts.

PRODUCTS

Dow Corning® 3362 Insulating Glass Sealant

Dow Corning® 791 Silicone Weatherproofing Sealant

Dow Corning® 993 Structural Sealant

KEY PARTICIPANTS

*Paul Andreu, Architect
(Paris, France)*

*Zhuhai Jinyi Curtain Wall Engineering Co., Ltd.
(Zhuhai, China)*

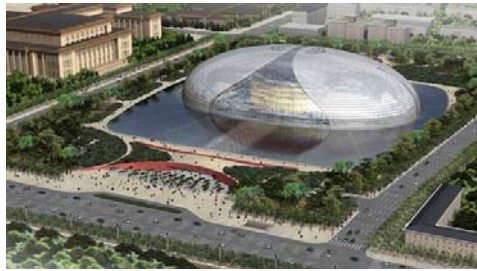
*North Glass Group
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*Dow Corning Corporation
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Dow Corning Supplies Silicone Solution for Curtain Wall Façade at Beijing's National Centre for the Performing Arts

China's National Centre for the Performing Arts in Beijing, commonly referred to as "The Egg" due to its oval design, is a complex, innovative, architectural marvel designed by world renowned architect, Paul Andreu. The Centre spans nearly 150,000 square meters, houses an opera, concert halls and two theatres, and sits in the middle of an artificial lake. The theatre is constructed of glass and titanium, and the theatre's façade is a dramatic, shimmering, glass curtain wall.

Constructing a building of this scale, along with sealing and insulating large amounts of curved glass, often presents significant structural challenges for long-term reliability and sustainability. It is very difficult for a sealant to adhere to a titanium panel due to titanium's unique surface features. However, Dow Corning overcame this challenge by roughing the titanium's surface using abrasive paper and applying a primer to increase adhesion.



The National Centre for the Performing Arts features a dramatic glass façade and sits in its own artificial lake.

Sealing Combination Provides Solution

As an established technical leader in the construction industry with long-term experience in China, Dow Corning recommended its newly launched *Dow Corning® 3362 Insulating Glass Sealant* and its proven *Dow Corning® 993 Structural Sealant*, which were more suitable for structural insulated glass applications. This combination of leading materials solved structural strength concerns, such as the use of titanium panels.

The National Centre for the Performing Arts was completed in September 2007. The Chinese Government and public feel safe knowing that sealants used in the construction of the Centre will stand the test of time.

Dow Corning's products have been used in buildings that are now more than 20 years old, primarily in the United States and Europe. In China, Dow Corning helped to develop industry standards and has provided consultation and materials for numerous buildings, such as the Jingguang Center and China World Trade Center.

F O R M O R E I N F O R M A T I O N

For more information about these and other Dow Corning materials for the construction industry, or for the name of the Dow Corning sales representative or product distributor in your area, call the Dow Corning Technical Information Center at +86 21 3774 7110.

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