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# Touch Sensors And Smart Control Panels With Superior Haptic Perception Thanks To Compo-SiL® Vegan Leather

## *Cooperation of Touch Switch Solution Maker COCHIEF with General Silicones*

***Hsinchu, Taiwan, July 8th, 2021*** - Experienced silicone product manufacturer General Silicones (GS) is proud to share its ***Compo-SiL®*** technology is successfully used by Taiwan touch switch solution provider **COCHIEF** to create new and innovative solutions for interfaces requiring touch sensor controls.

With the ongoing AI and IoT revolution, the integration of human-machine interfaces is bound to go beyond consumer electronic products and will be in products and devices as various as automotive dashboards to provide new means of interaction and control.

### Improved Haptic Sensation Allows for Better Switch Control

Current solutions either use glass surfaces or acrylic materials as surface material. Both materials give uses a hard and dry tactile feedback. Silicone rubber, on the other hand, provides a superior haptic feel.

The patented ***Compo-SiL®*** technology of General Silicones provides **COCHIEF** several advantages that previously used materials for its touch sensors can't deliver. General Silicones can modify the surface properties of silicone rubber. The material has a soft touch and feel, can provide different friction levels, and embossments can mimic surface patterns of other [materials such as leather](https://bit.ly/2U5ZFli). Combined with the ability to make the silicone semi-transparent and the use of standard adhesion procedures, the ***Compo-SiL®*** silicone rubber opens new pathways for improved human-machine interaction.

### Easy Touch Control of Buttons and Sliders

Silicone rubber is an ideal material for adding futuristic 21st-century style [HMI interaction to devices and surfaces](https://bit.ly/3wPFg2f). The unique patented PU modified layer of ***Compo-SiL®*** allows for [digital printing of the silicone rubber](https://bit.ly/3gVKOCY) to give the illusion of surface structures like wood or metal and to indicate the location of buttons and sliding switches. The modified PU layer allows the ***Compo-SiL®*** silicone composite film to be firmly bonded to the capacitive touch panel with general adhesives.

Since the initial concepts for ***Compo-SiL®*** by the GS R&D team, the potential of industries and applications that can take advantage of this innovation was enormous.

Michael Lin, CEO of GS, said:" I'm thrilled to see how **COCHIEF** can bring all the benefits that silicone rubber provides to create advanced human-machine interfaces. We are just starting to understand what potential our cooperation can deliver to the many industries requiring HMI".

The following video demonstrates the surface effect of the ***Compo-SiL®*** silicone composite film that was printed with a simulated pattern on the back PU modified layer and then attached to the capacitive touch panel designed by **COCHIEF**.

<https://youtu.be/qNXYn7Nn3uw>

Chris Lin, CEO of **COCHIEF**, said, "I was surprised to see how ***Compo-SiL®*** can bring a new experience to our touch panel products. We can now provide our customers more freedom with product design and a nice leather touch feeling. As the material is eco-friendly as well, I foresee excellent development opportunities."

Companies interested in knowing more about the solutions **COCHIEF** provides can visit their website at <https://www.cochief.com/en/index.html>

Sourcing managers and manufacturers interested in more information on ***Compo-SiL®*** can contact General Silicones at compo-sil@gsweb.com.tw for more details or visit [www.compo-sil.com](http://www.compo-sil.com/).

### About General Silicones

General Silicones (GS) was founded in 1970 in Taipei, Taiwan, and is now represented worldwide – including Europe, China, Japan, and South-East Asian countries. GS is a major distributor of silicone materials and an active silicone products manufacturer with ISO 9001, IATF 16949, and ISO 14001 certifications. The company has manufacturing plants in Hsinchu, Taiwan; Wujiang, China; and Bac Giang, Vietnam. With decades of experience in this field, GS has the ability and capacity to provide a wide range of silicone products for many industries, including medical, automobile, consumer products, electronics, and IT. For more information about GS, please visit [www.generalsilicones.com](http://www.generalsilicones.com). For more information on ***Compo-SiL®***, please visit [www.compo-sil.com](http://www.compo-sil.com/)

### About COCHIEF INDUSTRIAL CO., LTD.

COCHIEF INDUSTRIAL CO., LTD. (COCHIEF), founded in 1998, is a supplier of backlight applications and touch switch solutions with a worldwide customer base. Based in New Taipei City, Taiwan, the company supports clients as an end-to-end solution provider, starting from product design, manufacturing, processing to the final product assembly.

Solutions provided include printed capacitative touch switch modules, ultra-thin light guide film panels, and cold light film panels.

Product managers work with **COCHIEF** create control systems for smart homes, mobile displays, signage displays, airplane entertainment control systems, consumer electronic displays, and car dashboards.

For more information, visit <https://www.cochief.com>.