## **SILICONES** & CONSTRUCTION



Did you know?



your favourite kitchenware or your swimming cap. But did you know silicones play a key role in many aspects of construction?

Silicone materials have revolutionised construction since they were first introduced on the market in the 1960s.

### A SELECTION OF APPLICATIONS













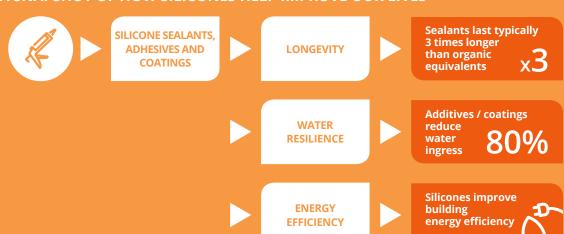


1.7 MILLION PEOPLE ACROSS **EUROPE ARE EMPLOYED IN SECTORS THAT ARE RELATED TO** SILICONE PRODUCTS.

Silicones are part of a bigger value chain that create jobs and enable a better quality of life for us.

0 0 0 0

### A SNAPSHOT OF HOW SILICONES HELP IMPROVE OUR LIVES





• • • •

•••• Silicone products offer substantial savings over the lifetime of a product.

•••• Silicone sealants last three times longer than organic materials used in the same applications.

THEY PROTECT BUILDINGS.

 Silicone coating reduces degradation and helps lengthen the operational lifetime of the material

•••• This prolongs the lifetime of buildings and façades and avoids or delays maintenance and repair costs arising from water or damp damage.

•••• The colourless silicone treatment applies flexibility and durability as well as improved UV resistance

A published example evaluates the potential savings silicone sealants could bring as opposed to urethane based sealants. It shows that by using silicone to re-caulk an 8-storey building can help save up to €112,000 in addition to providing additional durability.

Silicone additives are vital for insulating materials.
Studies have shown that filling a brick façade with silicone additives instead of alternative masonry water repellent techniques, emits 13 times less Greenhouse Gas (GHG) emissions. These additives are vital for insulating materials to work effectively.

### THEY IMPROVE ENERGY EFFICIENCY.

•••• Using silicone additives in construction emits 13 times less GHG emissions.

By using products made with silicones, you generate on average **9 TIMES LESS GREENHOUSE GASES** than were emitted during manufacturing and disposal of that product.



# PUT SIMPLY, SILICONES MAKE THINGS WORK BETTER!

#### **WANT TO KNOW MORE?**

This is just a snapshot of some of the applications in which silicones are used. For more information on silicones in other construction applications, the following website will help you find what you need:

### **WWW.SILICONES.EU**

or follow us on twitter @SiliconesEU

### **CONTACT ONE OF OUR EXPERTS**

CES Silicones Europe Dr Pierre Germain Secretary General

Avenue van Nieuwenhuyse 4, box 2 B-1160 Brussels - Belgium

Email: pge@cefic.be Tel.: +32 2 676 73 77 Fax: +32 2 676 73 59

