



Bluesil™ silicones your solution for building protection

Bluestar Silicones. Delivering Your Potential.

BLUESTAR
SILICONES

Bluesil™ products: reliable for a long lasting protection

Bluestar Silicones is one of the world's leading fully integrated silicone manufacturers with application and research laboratories, production sites and sales offices located all around the globe.

We focus on developing state-of-the-art application expertise to help our customers challenge their boundaries.

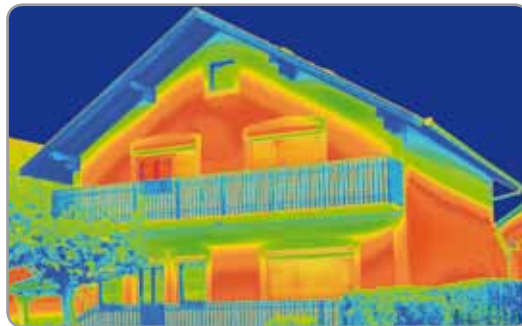
At Bluestar Silicones we're more than just manufacturers of high quality silicones products.

We are dedicated people, world wide located, committed to your success.

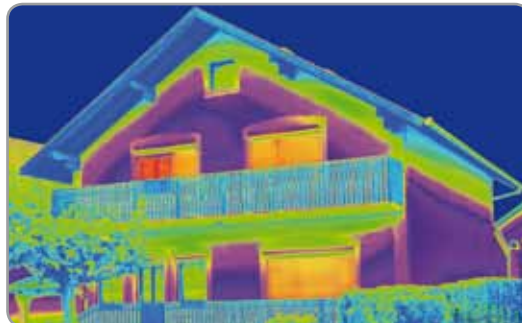
From technical support to customized formulation, Bluestar Silicones has the people in place when and where you need them.

Buildings in stone or mineral materials have a porous surface that tends to absorb water while being continuously exposed to weathering and sunlight. To guarantee the durability and beauty of coatings and surfaces over the long term, silicones provide an ideal solution that has been used and improved over the last 50 years.

The outstanding water repellency of our silicone resins prevents damage due to moisture, mildew development, loss of thermal insulation. Their very high vapour permeability allows the material to breathe and let water vapour escape to the outside without causing damage. These unique properties of Bluesil™ products will allow significant cost and energy savings.



- ▶ Energy consumption increased by evaporation of absorbed water in untreated materials:
 - Severe heat loss
 - Increased thermal conductivity



- ▶ Hydrophobic treatment allows:
 - Energy / effectiveness compromise
 - Preserved heat
 - Optimized thermal insulation

Bluestar Silicones is dedicated to serving the Building Protection market by building a lasting partnership you can rely upon.

A silicone producer for more than 50 years, Bluestar Silicones is committed to serving its customers by respecting all regulatory standards and offering you extensive service, material expertise and helping you in your sustainable development policy. Our teams help you to choose the best Building Protection product.

The building protection Bluesil™ solutions: unique in its ability to get sustainability and durability

Damages due to moisture in building

- Penetration of moisture through the wall
- Cracks caused by swelling & shrinkage
- Damage due to freeze thaw
- Efflorescence, aesthetic damages
- Development of algae, fungi, moss with health risk
- Chemical corrosion of the materials
- Loss of thermal insulation



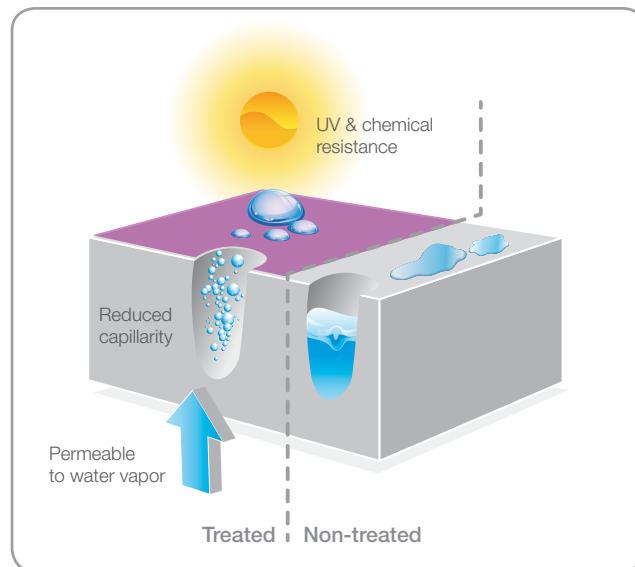
Silicone technology: a polymer with outstanding unique properties

- | | |
|----------------------------|------------------|
| ■ Hydrophobia | ➔ beading effect |
| ■ Gas permeability | ➔ breathability |
| ■ Very low surface tension | ➔ spreadability |
| ■ UV & chemical resistance | ➔ durability |

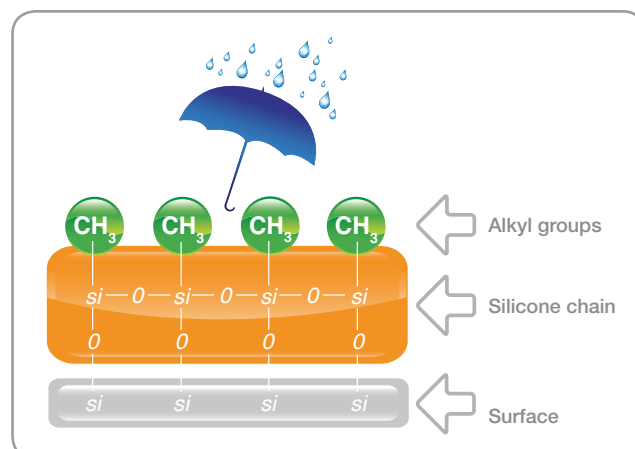
Silicones have very high water repellency which remains unaffected by changes in temperature and climatic conditions. This provides very low water absorption levels over time which prevent paints to swell or scale, and enable walls to keep their initial aesthetic aspect. Thanks to their outstanding water vapor permeability silicones do not block the surface's micro-porosity when applied to materials and so, whether in paints or water repellents, silicones let surfaces breathe. Moisture in the material can therefore evaporate from inside to outside resulting in a regular transfer of water and CO₂.

Benefits of silicones

- Maximum reduction of water uptake
- Permeability to water vapour: breathability
- Resistance to UV light, reduced efflorescence
- No change in surface appearance
- Long lasting effect, outstanding durability & protection
- Reduced maintenance: cost saving
- Thermal conductivity stability
- Environmental compatibility



▲ Water repellency



▲ Silicone technology water repellency

Bluesil™ silicone building protection solutions, sustainable savings thanks to outstanding properties



Decorative paints

Bluesil™ BP grades are solvent free siloxane emulsions. These water based co binders or additives bring hydrophobicity and allow walls to breathe with:

- long lasting protection
- durable aesthetic effect
- good washability
- enhanced thermal insulation

Masonry protection

Bluesil™ BP solutions can offer a wide range of silicone technologies which develops high water repellency performances with several benefits:

- outstanding resistance to weathering
- high protection against efflorescences, algae, fungi
- appearance durability
- improved thermal conductivity
- maintenance cost savings



Construction materials

Bluesil™ BP water repellents are used to protect several type of materials used in construction industry against moisture. Mostly based on solvent free products, their advantages are:

- increased global comfort of houses & buildings
- improved insulation properties
- energy cost savings
- contribution to environmental protection





A quality system certified
to NF ISO 9001: 2008 and
NF E N / AS 9100 standard



**An ongoing commitment to safety,
protection of health and the environment**

Having signed its name to the U.I.C.
(Chemical Industry's Union) commitment
to progress, Bluestar Silicones is committed
to manufacturing its products and carrying
out its operations with a continuous focus on
improving safety and protecting health and
the environment.

Bluestar Silicones throughout the world

Commonwealth of Independent States (CIS), Middle East, Eastern Europe, Africa

Bluestar Silicones France SAS
21, avenue Georges Pompidou
F - 69486 Lyon cedex 03
Tel. + 33 (0)4 72 13 19 00,
Fax + 33 (0)4 72 13 19 88

France, Belgium, Luxembourg, the Netherlands

**Bluestar Silicones France SAS
Customer Service**
55, rue des Frères Perret
F - 69191 Saint-Fons cedex
Tel. + 33 (0)4 72 73 71 00
Fax + 33 (0)4 72 73 76 58

Italy

Bluestar Siliconi Italia Srl
Via Archimede, 602
I - 21042 Caronno Pertusella (Va)
Tel. + 39 02 96 41 41
Fax + 39 02 964 50 209

Germany, Switzerland, Austria

Bluestar Silicones Germany GmbH
Borsigstrasse 1
D - 51381 Leverkusen
Tel. + 49 (0) 2171 91349 0
Fax + 49 (0) 2171 91349 10

Spain, Portugal

Bluestar Siliconas España SA
C/Vic 3, Poligono Industrial La Florida
E - 08130 Santa Perpètua de Mogoda (Barcelona)
Tel. + 34 935 040 200
Fax + 34 935 608 049

Norway, Sweden, Denmark

Bluestar Silicones Scandinavia A/S
Dronningensgate 6
N - 0152 Oslo
Tel. + 47 22 91 07 60

Finland

Bluestar Silicones Finland OY
Eskolantie 1 A
FI - 00720 Helsinki
Tel. + 358 9 350 877 30
Fax + 358 9 350 877 17

Poland

Bluestar Silicones Poland Sp z o.o.
ul. Grzybowska 80/82
PL 00-844 Warszawa
Tel. + 48 22 661 55 21
Fax. + 48 22 661 51 20

Czech Republic

Bluestar Silicones Czech Republic, s.r.o.
Za potokem 46/4
106 00 Praha 10
Czech Republic
Tel. + 420-603-496662

United Kingdom, Ireland

Bluestar Silicones UK Ltd
Wolfe Mead, Farnham Road
Bordon, Hampshire GU35 0NH
Tel. + 44 14 20 477 000
Fax + 44 14 20 483 200

USA - Canada

Bluestar Silicones North America
Two Tower Center Blvd - Suite 1601
East Brunswick - NJ 08816 - 1100 - USA
Tel. + 1 732 227 2060
Fax +1 732 249 7000

Latin America

Bluestar Silicones Brasil Ltda
Av. Maria Coelho Aguiar, 215
Bloco G - 1º ANDAR - São Paulo - Brazil
CEP : 05804-902
Tel. + 55 11 37 47 78 87
Fax + 55 11 37 41 77 18

Hong Kong - Asia Pacific Regional Office

Bluestar Silicones Hong Kong Trading Co., Ltd
29/F, 88 Hing Fat Street
Causeway Bay, Hong Kong
Tel. + 852 3106 8200
Fax + 852 2979 0241

China

Bluestar Silicones Shanghai Co., Ltd
3966 Jin Du Road
Xin Zhuang Industrial Zone
Shanghai 201108, China
Tel. + 86 (0)21 5442 6600
Fax + 86 (0)21 5442 3733

Korea

Bluestar Silicones HK Trading Co., Ltd
Korea Branch 17/F, Kangnam Bldg., 1321-1,
Seocho Dong, Seocho Gu, Seoul, Korea
Tel. + 82 (0)2 3472 5137
Fax + 82 (0)2 3472 5007

Japan

Bluestar Silicones Hong Kong Trading Co., Ltd
Roppongi First Building, 1-9-9 Roppongi, Minato-Ku,
Tokyo, 106-8540, Japan

For detailed commercial contacts please visit our website:
www.bluestarsilicones.com

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