



Essentials for Construction

About Us

Evonik Industries is the creative industrial group from Germany which operates in three business areas: Chemicals, Energy and Real Estate. Evonik is a global leader in specialty chemicals, an expert in power generation from hard coal and renewable energies, and one of the largest private residential real estate companies in Germany. Our strengths are creativity, specialization, continuous self-renewal, and reliability. Evonik is active in over 100 countries around the world.

The Business Line Interface & Performance of Evonik has its base in all kinds of organic specialty surfactants and organomodified siloxanes. We hold strong positions with antifoams, emulsifiers, corrosion inhibitors, dispersing aids, hydrophobing and wetting agents, softeners and radiation curable release coatings. Our broad product range, technological background and application know-how addresses several industries like plastics, rubber, label, tape and release liner manufacturing, construction, lubricants, agro, textile and tissue industry.

Essentials for Construction

Innovation in terms of products, processes and solutions that make a difference for our customers is an on-going theme for Evonik. At the same time we are committed to environmental responsibility and sustainable socio-economic development. Based on more than three decades of experience and continuous improvement water repellents of Evonik set the benchmark in terms of efficiency and performance. Additives for admixture applications like defoamers and our innovative powdered products for dry mortar applications complement our portfolio. Our leading position in interfacial chemistry, broad product technology, global technical service and distribution network makes Evonik a valuable partner for all formulators in the construction industry.

Products + Solutions

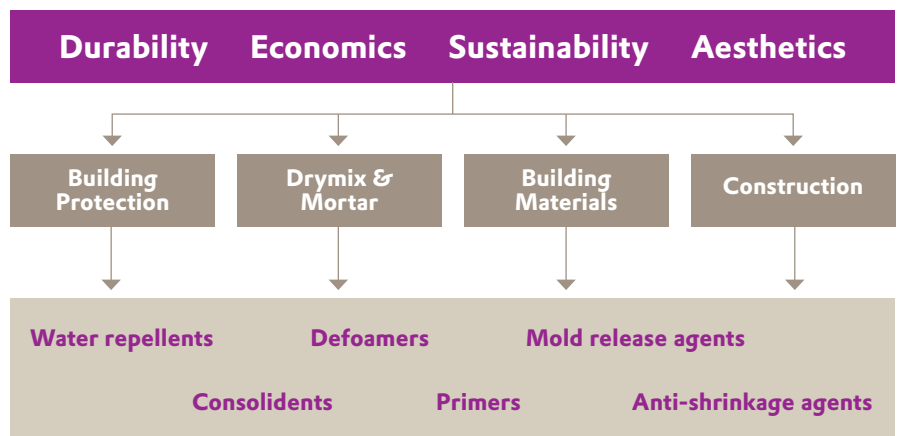
Evonik products for construction were developed to meet your demands with respect to:

Durability: Our water repellents, TEGOSIVIN® and SITREN®, in liquid and powdered form, stand for durable protection against water ingress and related damages.

Economics: Our defoamers, TEGO® Antifoam, for drymix applications and as admixtures allow smooth and efficient production processes. Water repellents, TEGOSIVIN®, mean better energy efficiency due to improved insulation of building materials.

Sustainability: Our principles for innovation strive for environmentally friendly products. This includes products with a low content of volatile organic compounds or free of solvent as well as additives based on biodegradable raw-materials. For example, our new defoamer TEGO® Antifoam 2-57 for concrete plasticizers was awarded, "Green Product of the Year" by Frost & Sullivan.

Aesthetics: Our efflorescence control agents, TEGOSIVIN® or SITREN®, prevent optical damage of construction surfaces caused by mineral blooming.





Solutions for Building Protection

TEGOSIVIN® for efficient and durable water proofing

Water and salts cause the majority of all damages in construction. The porosity of the building materials allows for the ingress of water. During winter freezing water may cause cracks in the material. It is important to mention that damage to buildings is not only caused by the natural weathering but also by high air pollutant concentrations. High emission concentrations of SO₂ and NO_x, especially in industrial areas, have dramatically increased the damage of mineral substrates.

There is a strong need to not only restore and preserve ageing structures of vast cultural and aesthetical value but also protect newly built works in private and public areas. The simple rule applies: water proofing means durable building protection.

With more than 50 years of experience in organosiloxane and silicone chemistry Evonik water repellents have set the benchmark in terms of performance and efficiency. Our broad portfolio satisfies all needs when it comes to building protec-

tion. Ranging from products for the formulation of water and solvent based water repellents for impregnation, primers and horizontal barriers (Damp Proof Course) to consolidants.

Products

The TEGOSIVIN® product line combines silicone resin, organomodified siloxane and silane technology in a unique way. TEGOSIVIN® products constitute the perfect basis for the formulation of high-quality building protection products. Evonik stands for understanding of market needs, technical expertise and superior product quality.

Impregnation

TEGOSIVIN® for the production of water and solvent based water repellents

Horizontal Barriers

TEGOSIVIN® for the formulation of solvent and water based injection systems to stop rising damp

Primers

TEGOSIVIN® for the formulation of solvent and water based primers

Consolidants

TEGOVAKON® for consolidation of decayed masonry

Benefits of TEGOSIVIN® and TEGOVAKON® building protection products

- Durable and effective protection against water-induced damages
- Efflorescence prevention
- Protection against de-icing salts
- Alkali resistance
- Reduction in heat conductivity leading to thermal insulation
- Non-tacky finish with stain release effect
- No reduction of vapor permeability
- Consolidation of the substrate up to original strength



Performance Products for Concrete and Admixtures

High performance products of Evonik for concrete and admixtures support modern concrete technology to fulfill highest requirements yielding faster construction, greater durability and increased mechanical strength.

Water repellents for integral and topical applications

The TEGOSIVIN® water repellents for products manufactured from semi-dry concrete include integral and topical applications. These products are based on silanes and siloxane derivatives to provide outstanding water repellence and efflorescence control through the whole product life cycle. Admixtures based on TEGOSIVIN® are the solution for reduction or elimination of color fading pigmented products. In addition TEGOSIVIN® water repellence concentrates are highly efficient and durable for post-treatment of concrete structures.

Benefits

- Strong reduction in water up-take
- Excellent 1° and 2° efflorescence control
- No color fading
- No negative impact on cement hydration
- Long-term performance
- High penetration depth

Mold release agent

Our mold release agent, SITREN® MR 870, is an environmental-friendly, easy to dilute concentrate for the formulation of mold release emulsions.

Benefits

- Outstanding release performance for a variety of molds
- Excellent stability of dilutions
- Biodegradable (95 % according to OECD 301 F)
- Excellent surface finish (smooth surface)
- Prevention of air pores (blow holes) on concrete surface

Defoamer for concrete plasticizers

Handling problems due to foam formation, when lignin sulphonate based plasticizers are applied, can be avoided by TEGO® Antifoam foam control agent even at low dosages.

Benefits

- Excellent defoaming properties
- Improves flowability of concrete
- Good compatibility with lignin sulfonates
- Easy incorporation at room temperature
- Environmentally friendly
- No interaction with rubber hoses/gaskets

High Performance Products for Drymix and Mortar

Modern drymix mortar technology provides well-defined properties to achieve reproducible performance which is crucial for demanding construction works. Different types of mortar can be produced for use as decorative render, grouts, mortars, adhesives, flooring or screeds. High performance powdered products of Evonik assist to productive and cost-efficient construction processes and to reach a high level of consistency and reliability of the substrate. As free flowing powders they are easy to handle and dose in drymix and mortar applications.

Water repellents and efflorescence control agents

SITREN® P 700 powder products provide outstanding water repellence with true long term performance to protect buildings and architectural construction.

Benefits

- Outstanding water repellence
- Durability
- Efflorescence control
- Excellent beading effect
- No influence on subsequent coatings
- Stability against alkalinity
- Easy to handle and dose
- No adverse impact on mechanical properties

Foam control agents

Based on organomodified siloxanes TEGO® Antifoam P 200 are highly effective foam control agents to avoid and suppress air entrainment and foam in mortar formulations.

TEGO® Antifoam P 200 are highly recommended to improve workability, mechanical, and surface properties to avoid surface defects. TEGO® Antifoam P 200 may also be used in demanding applications including joint filler, powder based paints and adhesive applications.

Benefits

- Excellent foam control performance
- No negative influence on flowability
- Reduced pinholes and air bubbles on underlayment surfaces
- Easy to handle and dose
- Alkaline stability

Shrinkage reducing agent

Autogenous and drying shrinkage in cementitious and concrete formulations can be significantly reduced by SITREN® PSR 100. The magnitude of capillary stresses and shrinkage strains that occur during the drying process decreases which means an increase of the overall life-cycle of construction works.

Benefits

- Less drying shrinkage
- Less crack formation
- Reduced chlorine penetration

TEGOSIVIN®

SITREN®

TEGO® Antifoam

TEGOVAKON®

ASIA

CHINA

Evonik Degussa (China) Co, Ltd.
55, Chundong Road
Xinzhuang Industrie Park
Shanghai, 201108
PHONE +86 21 6119-1125
FAX +86 21 6119-1406

JAPAN

Evonik Degussa Japan Co., Ltd.
Shinjuku Monolith 12F
2-3-1, Nishi-Shinjuku
Shinjuku-ku
Tokyo 163-0938
PHONE +81 3 5323-7441
FAX +81 3 5323-7444

SOUTH KOREA

Evonik Degussa Korea Ltd. (Seoul Office)
8th floor Bookuk Bldg.
34-2 Yeouido-dong, Youngdeungpo-ku
Seoul
PHONE +82 2 7847 963
FAX +82 2 7855 247

INDIA

Evonik Degussa India Pvt. Ltd.
Krislon House, Opp. Marwah Center
Saki Naka, Andheri (E),
Saki Vihar Road
Mumbai 400072
PHONE +91 226 6 3070-70
FAX +91 226 6 3070-71

SOUTH EAST ASIA

Evonik Degussa (SEA) Pte. Ltd.
3, International Business Park
Nordic European Centre # 07-18
Singapore 609927
PHONE +65 6 890-6054
FAX +65 6 890-6058

TAIWAN

Evonik Degussa Taiwan Ltd.
9 F, 133 Min Sheng East Rd.
Sec. 3
Taipei
PHONE +886 2271 712-42
FAX +886 2271 721-06

EUROPE

AUSTRIA/POLAND

Evonik Degussa International AG
Post Office Box 130
1053 Vienna
PHONE +43 1 966-6352
FAX +43 1 966-6407

ITALY

Evonik Goldschmidt Italia S.r.l.
Via Falconera, 7
26025 Pandino (Cr)
PHONE +39 0373 975-11
FAX +39 0373 975-260

UNITED KINGDOM

Evonik Goldschmidt UK Ltd.
Tego House
Chippenham Drive, Kingston
Milton Keynes MK10 0AF
PHONE +44 1908 2895-42
FAX +44 1908 5830-21

BENELUX

Evonik Degussa International AG
Goldschmidtstraße 100
45127 Essen
PHONE + 32 2 452 6122

RUSSIA

OOO Evonik Chimia
109028, Moscow
Zemlayanoy Val Str., 50A/8
PHONE +7 495 721-2862
FAX +7 495 721-2852

EASTERN EUROPE

Evonik Degussa Praha s.r.o.
BB Centrum Building Beta
Vyskočilova 1481/4
141 00 Praha 4 - Michle
PHONE +420 241 086-118
FAX +420 241 086-518

SPAIN

Evonik Degussa Ibérica S.A.
Polig. Ind. del Congost
Avda. Sant Julià 156-166
08400 Granollers (Barcelona)
PHONE +34 938 6421-92
FAX +34 938 6421-20

FRANCE

Evonik Goldschmidt GmbH
Goldschmidtstraße 100
45127 Essen
PHONE + 33 1 6900 7090

TURKEY

Evonik Degussa Ticaret Ltd.
Ankara Asfalti Uzeri
Kanli Mandira Mevkii
Tuzla Kavşagi No: 68
34940 Tuzla, Istanbul
PHONE +90 216 3959-961
FAX +90 216 3959-650

THE AMERICAS

MEXICO

Degussa México, S.A. de C.V.
Calz. México-Xochimilco No. 5149-Bis
Col. Arenal, Tepepan
14610 México D.F.
PHONE +52 55 5483-1000
FAX +52 55 5673-6649

NORTH AMERICA

Evonik Goldschmidt Corp.
914 E. Randolph Rd.
P.O. Box 1299
Hopewell, VA 23860
PHONE +1 804 541-8658
FAX +1 804 541-2783

SOUTH AMERICA

Evonik Degussa Ibérica S.A.
Alameda Campinas, 579-4 andar
01404-000-São Paulo-SP
PABX: +55 11 3146 41-00 (Gen.)
PHONE +55 11 3146 41-60 (Direct)
FAX +55 11 3146 41-09

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Evonik Industries AG

Goldschmidtstraße 100
45127 Essen
Germany

P.O. Box, 45116 Essen

PHONE +49 201 173-2961

FAX +49 201 173-1990

www.evonik.com/construction-chemicals

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