

You Build, We Protect!



HEGGEL GmbH

Innovative Surface Protection Systems



HEGGEL[®]GmbH

is a leading manufacturer of industrial protective coating systems, "Made in Germany".

We innovatively design produce high-performance corrosion protection coatings, linings and floorings for different fields of application.

The properties of our products are highlighted by extraordinary chemical resistance, abrasion resistance and weatherability.

We generate a broad spectrum of polymer coating, lining and flooring products ranging amongst the highest performance properties within today's global industry and meet our customers' demands by offering highly efficient and cost-effective world-class solutions.

The remarkable diversity of our protective products which have been certified by independent institutes and approved for the various scopes of applications, proves the fact that HEGGEL GmbH perfectly fulfills a broad range of requirements and customers' demands.

Values

Empowered by Expertise

We proudly utilize the expertise of our professional engineering team to provide high quality products and services.

Commitment to Quality

Our strict adherence to quality standards ensures the superiority of the HEGGEL coating products, approved by extensive laboratory tests.

Innovation

We adopt an innovative approach in development of product technologies with enhanced performance through interdisciplinary research.

Trust

We apply high ethical standards to create a trust-based relationship with all our partners.

Improvement

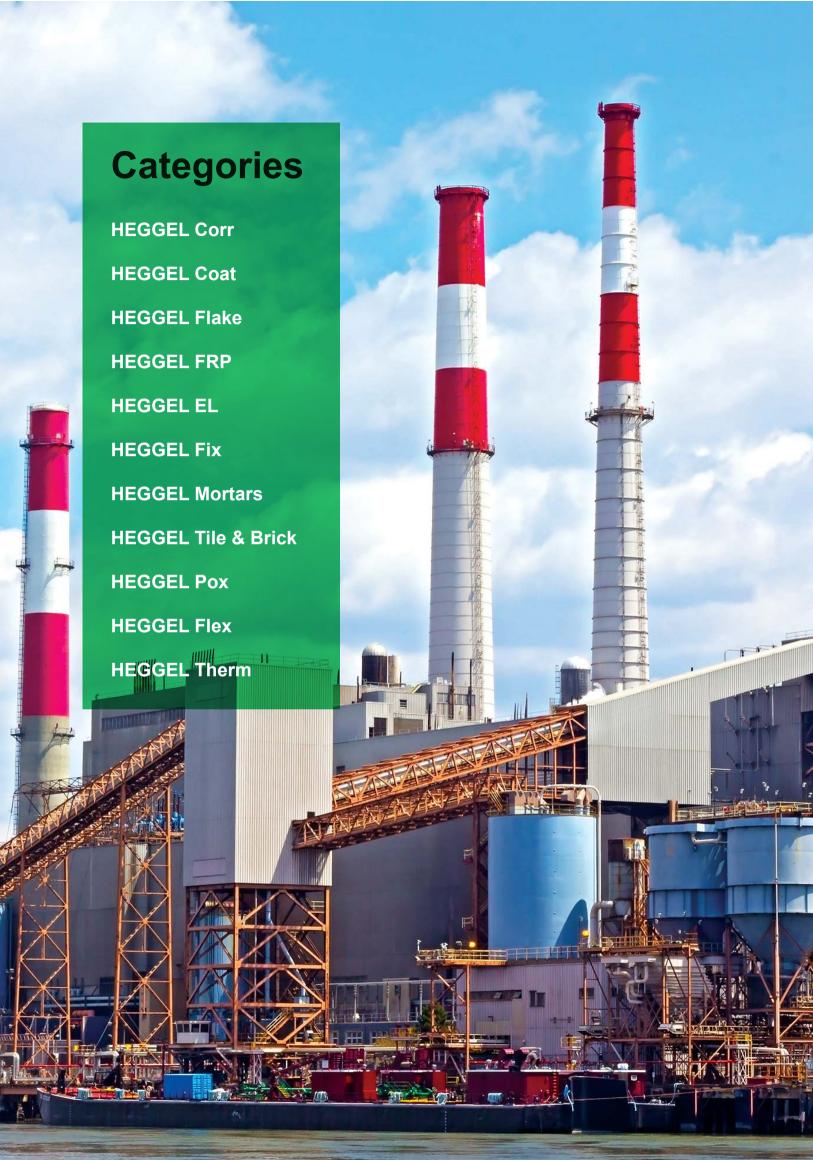
Our expert engineering team is dedicated to continual improvement of overall quality performance and development of products.

Customer Satisfaction

We are committed to customer satisfaction and hence, have a customer-oriented approach.

Environmental Responsibility

Our concern for the environment has led us to produce solvent-free products and sourcing the raw materials from responsible producers.



Industries

Chemical

Oil & Gas

Power

Pharmaceutical

Food

Pulp & Paper

Water

Automotive

Electronics

Steel

Shipbuilding

Aviation

Mining

Scopes of Application

Storage Tanks

Crude oil Hydrocarbons Chemicals Wastewater

Pipelines

Crude oil
Hydrocarbons
Gases
H₂S
Chemicals
Potable water
Wastewater
Special projects

Offshore & Marine

Subsea Splash zone Jetty legs Ballast tanks Special projects

Floorings

Anti-static
Clean rooms
Cold chambers
Chemicals
Food processing
Aircraft hangar
Special projects

Specials

Desalination FGD Scrubber Biomass / Biogas Galvanic industry

HEGGEL[®] Corr

High-Tech Coatings Specialized for Extreme Demands

HEGGEL GmbH has developed the new generation of High-Tech corrosion resistant coatings, **HEGGEL Corr**, based on the world modern technologies in response to strong demands offering superior resistance against aggressive environments and highly corrosive conditions.

Our innovative **HEGGEL Corr** coating systems provide superior broad range chemical resistance from ambient to elevated temperature in excess of **225°C**, derived from a novel molecular structure based on the multifunctional hybridized polymer matrix in the manner of simultaneous utilization of organic and inorganic compounds.

The extended range of our High-Tech coatings, is particularly devised for special applications and extreme requirements including concentrated as well as diluted acids and alkalis at high operating temperature.

HEGGEL Corr coatings are also specifically intended for severe corrosive environments e.g. sour gas treating units, H₂S, CO₂, amines and hydrocarbon combinations.

Alongside the exceptional durability, **HEGGEL Corr** features outstanding physical properties such as phenomenal adhesion strength, abrasion and impact resistance.

HEGGEL Corr has attracted the enormous interest of industries with critical service conditions and equipment, due to its exceptional chemical, thermal and mechanical resistance besides its applicability as a cold-curing single coat system, long-term durability and being comfortable in terms of repair and maintenance, which significantly facilitates the implementation and operation and extends equipment's life cycle.

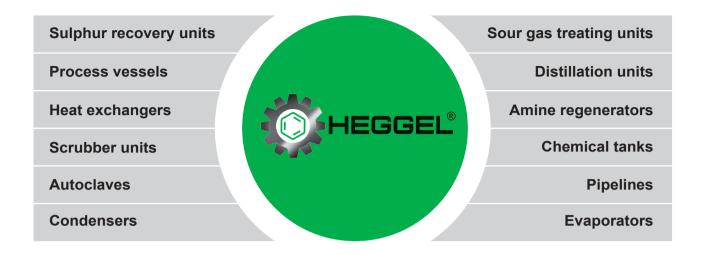
Most Noteworthy Resistances

- Spent amines rich in H₂S/CO₂
- Amines (DEA, MDEA, MEA, DGA)
- Carbon disulphide
- Molten sulphur + acidic vapour
- Sulphuric acid 98%
- Hydrochloric acid 37%
- Nitric acid 50%
- Phosphoric acid 84%
- Sodium hydroxide 50-75%
- Hydrofluoric acid 70%
- Glacial acetic acid 100%
- Sodium hypochlorite

Superior Replacement of

- Rubber lining systems
- FRP linings
- Glass flake reinforced coatings
- Phenolic epoxy-based coatings
- Modified epoxy novolac-based coatings





HEGGEL[®] Corr superior advantages

- Superior chemical resistance to a multitude of media ranging from **pH 1-14**
- Excellent immersed temperature resistance up to 225°C
- Self-priming single coat system
- Easy application
- Easy maintenance and inspection
- Downtime reduction, due to rapid ambient cure allowing for quick on-site application
- Long-lasting impermeability





HEGGEL® Corr

Application References

Gas industries

Vessels

LP gas separators and compressors

Power plants

Hydrazine storage tanks

Utility companies

Sulphonyl regeneration units Reboilers

Oil & Gas refineries

Sour gas services in combination with DGA/MDEA/MEA amine environments, caustic services, sulphuric acid tanks, DGA stripper reflux drums, pipe spools carrying H₂S rich gases, injection gas compressors: Wet acid gas, lean natural gas and dry sour gas, lean MEA storage tanks, caustic disulphide separators, sour water degassing drums, reboiler vessels in DGA services, DGA amine strippers, stripper receiver, wet sour services with H₂S, DGA storage tanks, MDEA rich in H₂S, DGA contactors.





HEGGEL® Coat

High-Performance Corrosion Prevention Solutions

HEGGEL GmbH generates HEGGEL Coat protective coating systems, representing outstanding features through linking micro and nano mineral particles to a high-quality polymer matrix. This unique molecular structure results in a coating characterized by long-term durability, impermeability and extraordinary physical properties.

The combination of excellent chemical resistance and equally the ability to withstand mechanical stresses, allows **HEGGEL Coat** systems to be used for corrosion protection in a wide range of industrial processes.

HEGGEL Coat includes diverse product codes covering a wide range of chemical resistance to various organic and inorganic substances, abrasion and thermal resistance as well as excellent weatherability.

Our portfolio contains premium protective systems specialized for offshore application, which is highly corrosive due to permanent exposure to wet and salt-laden environment intensified by UV radiation.

Our extensive range of **HEGGEL Coat** products unconditionally endures abrasion and erosion, high-impact loads and all types of severe corrosion attacks of the marine environment.

One of the most remarkable features of our **HEGGEL Coat** systems is that they are free of solvents.

Detailed analysis by independent institutes proves the safety and usability of **HEGGEL Coat** in the scope of drinking water and food applications. With our extensive range of **HEGGEL Coat** products, you will not have any concerns about severe corrosion on steel and concrete substrates.

HEGGEL Coat is resistant to:

All types of water: seawater, brackish water, wastewater, deionized water
Neutral salt solutions
Diluted acids and alkalis
Mineral oil, aliphatic hydrocarbons and fuels

HEGGEL Coat strengths

- Excellent corrosion protection and chemical resistance
- High durability and impermeability
- Outstanding abrasion resistance
- Thermal resistance up to 170°C
- Excellent adhesion strength
- Easy to apply in a single-coat layer
- Easy to repair and maintain
- Saving application costs
- 100% solvent-free

Approvals

- 15000 hours salt spray test
- Chemical resistance to diverse media
- Physical and mechanical tests
- Potable water approval

HEGGEL® Coat

Application Areas



HEGGEL® Flake

Glass Flake Reinforced Systems to Minimize Penetration

The glass flake reinforced coatings of **HEGGEL Flake** are generated with exceptional diffusion barrier properties and are widely used in a broad range of applications, particularly for aggressive environments.

Our resin-based **HEGGEL Flake** coatings, integrated with glass flakes of optimized aspect ratio, provide added protection against high temperature exposures, as well as outstanding mechanical properties.

Where corrosion is caused by vapour penetration, **HEGGEL Flake** will greatly resist through decelerating the process by incorporating glass flakes in a High-Tech polymeric matrix, resulting in a more durable protection in extreme corrosive conditions.

Application Areas

- Raw gas and clean gas ducts
- Heat exchangers
- Flue gas scrubbers
- Flue gas desulphurization (FGD) plants' stacks and pre-heaters
- Offshore / onshore structures and vessels
- Cooling towers
- Pressure vessels
- Storage and process tanks





HEGGEL® FRP

High-Strength Fiber-Reinforced Laminates

HEGGEL glass fiber reinforced synthetic resin laminates have been extensively used for various types of corrosive environments.

HEGGEL FRP demonstrates high temperature capabilities, thermal insulation and outstanding mechanical properties along with excellent chemical resistance.

Our **HEGGEL FRP** systems are classified according to their high-performance resin bases, including Vinyl Ester, Furan, Phenol and Epoxy, which deliver the chemical and mechanical resistance of the system whilst binding the glass fiber in the composition of laminate systems.

HEGGEL FRP products are also widely used as an impermeable sealing layer in tile / brick lining work.

HEGGEL Furanic FRP

- High chemical resistance against a wide range of acids and alkalis
- High adhesion strength to concrete
- Excellent temperature resistance

HEGGEL Phenolic FRP

- Superior chemical resistance against harsh environments, concentrated acids and solvents
- Excellent mechanical strength
- Electrical conductivity

HEGGEL Vinyl Ester-based FRP

- Excellent chemical resistance to acids, alkalis, solvents and oxidizing agents
- High adhesion strength to concrete
- Crack-bridging properties

HEGGEL Epoxy-based FRP

- Excellent corrosion resistance
- High temperature resistance up to 160°C
- Good mechanical properties

Application Areas:

- Wastewater / Neutralization ponds
- Chemical storage tanks
- Containment dikes
- Ditches, trenches, sumps
- Flooring of liquid storage area
- Flooring of aircraft hangars
- Process / Treatment sites



HEGGEL® EL

Engineered Rubber Lining Solutions for Harsh Industrial Environments

HEGGEL EL offers a comprehensive portfolio of high-performance rubber lining systems designed to meet the evolving challenges of modern industrial environments. The product range includes a broad spectrum of rubber compounds such as natural rubber, bromobutyl, chlorobutyl, EPDM, CSM, neoprene, and graphite-filled formulations, each precisely engineered for optimal performance under chemical, thermal, and mechanical stress.

HEGGEL Rubber linings are available in both soft and hard rubber grades to match specific operational requirements:

- **Soft rubber linings** provide excellent flexibility, abrasion resistance, and impact absorption, while also offering strong chemical and thermal resistance.
- Hard rubber linings deliver outstanding chemical resistance, dimensional stability, and long-term durability, particularly in aggressive chemical and thermal environments.

HEGGEL EL supports multiple vulcanization methods to suit the scope and complexity of each project:

- Pre-vulcanized linings, cured prior to installation, provide rapid and efficient application.
- Self-vulcanizing linings, cured on-site, ensure a seamless fit to complex geometries.
- Non-vulcanized linings, cured in-situ, are suitable for highly customized and large-scale installations

Each lining system is integrated with HEGGEL's proprietary adhesive and primer technologies. These are formulated to ensure long-lasting adhesion and structural integrity even in critical zones such as seams, overlaps, and areas exposed to high chemical or thermal stress.

HEGGEL EL Advantages

- Wide range of chemical, thermal, and mechanical-resistant compounds
- Soft and hard rubber options for performance customization
- Multiple curing technologies for installation flexibility
- High abrasion resistance and effective diffusion barrier properties
- Engineered adhesive systems for reliable, long-term protection

HEGGEL® EL

Application Areas



- Internal lining of storage tanks and chemical reactors
- Acid-resistant lining for scrubbers, absorbers, and gas cleaning equipment
- Chemical protection in pickling plants and acid regeneration units
- Lining for pipelines and ducting in corrosive media
- Protective lining for desalination plants and water treatment facilities
- Rubber lining of concrete and steel in wastewater and effluent treatment systems
- Rubber protection for flue gas desulfurization (FGD) systems
- Lining for process vessels in chemical processing
- Mining and mineral processing equipment
- Any asset requiring reliable protection from corrosion, wear, or thermal extremes





HEGGEL® Fix

Rapid Repair and Time-Saving

HEGGEL Fix product range features advanced mortars designed to repair surface defects in damaged metal equipment as well as in hard/soft rubber-lined and glass-lined vessels. These products provide exceptional abrasion resistance, chemical resistance against highly aggressive environments, high thermal resistance, and excellent adhesion strength to a wide range of substrates.

HEGGEL Fix has a wide range of application in repairs and maintenance of various types of metals, alloys and linings, extending the life cycle of the machineries, process equipment and steel structures, while reducing the downtime.

Our Metal-Build **HEGGEL Fix** products can also be used in the surface preparation stage, prior to the application of any coating system, in order to fill the pitting, holes and defected areas, and in consequence, maximize the performance and life cycle of the coating system.

Repairing damaged rubber lined equipment by the same type of rubber compounds leads to time and cost overruns, whereas the application of **HEGGEL Fix** reduces the cost significantly whilst saving time and allowing an easy installation.



HEGGEL® Fix assets

HEGGEL Fix 811

- Exceptional mechanical strength and abrasion resistance
- Excellent adhesion strength to a wide range of substrates
- Superior broad-range chemical resistance
- Temperature resistance in excess of 225°C
- Easy application
- Time-saving and cost-effective



You Build, We Protect!



HEGGEL® Tile **HEGGEL®** Brick

Durable Acid-Resistant Ceramic Tiles & Bricks for Long-Term **Protection**

Acid-resistant Tiles & Bricks have been in extensive use for many decades across various industries, providing protection against potential structural damage.

The **HEGGEL Tile & Brick** category represents a premium selection of tiles & bricks engineered to withstand the severe demands of industrial applications, whether exposed to the harshest corrosive chemicals or heavy mechanical stresses. These tiles and bricks are produced in various shapes and sizes in accordance with German standard sizes, but can also be tailored to different dimensions and sizes upon request.

HEGGEL Tile & Brick category is featured by its remarkably low water absorption, exceptional compressive and flexural strength, and unparalleled chemical resistance even in the most challenging environments. When HEGGEL Tile & Brick products are used in conjunction with the appropriate acid and alkali-resistant mortar, they exhibit a considerably extended lifespan.

HEGGEL® Tile / Brick Lining Application Scopes

Floors Sumps Channels Pits

Reservoirs



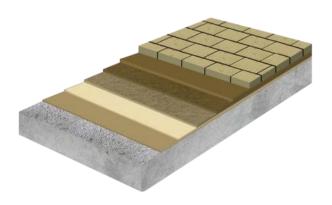
- Chemical industry
- Wastewater and process water treatment units
- Power plants
- Chemical storage warehouses and workshops
- Neutralization tanks
- Pickling lines

HEGGEL® Mortars

Acid & Alkali Resistant Mortars A Broad Range of Bases Covering **Every Demand**

HEGGEL GmbH provides acid and alkali resistant mortars for laying tiles/bricks, called **HEGGEL Mortars** with a broad range of formulations and structures for optimum performance, in exposure to a wide variety of process conditions.

The considerable diversity **HEGGEL Mortars** portfolio derived from the variety of resin bases and improved formulation offers a wide range of chemical and thermal resistance as well as outstanding mechanical strength.



HEGGEL FU

- Furan-based mortars
- Includes versatile products modified with mineral and carbon fillers
- Highly resistant to solvents, acids and alkalis
- Thermal resistance up to 220°C

HEGGEL SP

- Potassium silicate-based mortars
- Extremely high acid resistance
- Extraordinary thermal resistance to high temperatures in excess of 900°C

HEGGEL PL

- Phenol-based mortars
- Superior resistance to aggressive conditions, especially to acids and solvents
- Excellent adhesion to ceramic and carbon tiles / bricks

HEGGEL VE

- Novolac vinyl ester-based mortars
- Good chemical resistance, especially against oxidizing agents
- High-performance against mechanical stresses

HEGGEL PS

- Polyester-based mortars
- Superior chemical resistance to a wide variety of chemicals
- Strong bonding with tiles & bricks

HEGGEL EP

- Epoxy-based mortars
- Excellent thermal resistance up to 150°C

HEGGEL® Pox **HEGGEL®** Flex

Long-Lasting Reliable Floor Coating Systems

In response to the requirements of residential, commercial or industrial environments regarding floor protection, HEGGEL GmbH provides its clients with advanced HEGGEL Pox and **HEGGEL Flex** products.

HEGGEL floor coating product portfolio offers efficacious high-performance solutions with long-term durability for concrete and steel substrates. Our HEGGEL Pox and **HEGGEL Flex** products comply with hygienic standards and GMP regulations, the essential requirements of food and pharmaceutical industries.

Our **HEGGEL Pox** Epoxy-based systems are privileged due to the solvent-free compositions and their characteristics of high compressive strength and excellent durability for heavy-loads and impacts caused by machineries, equipment, etc.

HEGGEL Flex Polyurethane-based systems provide excellent corrosion resistance against chemical substances along with high impact resistance resulting from its flexibility.

HEGGEL Flex also demonstrates outstanding thermal stability for refrigerated warehouses and hot chambers without any accompanying changes in physical properties.

We have also developed flooring systems with a special and unique electrically conductive polymeric structure, which complies with the ESD standards and effectively prevents the build-up of electrostatic charges.

HEGGEL Pox

- High mechanical and abrasion resistance
- Suitable chemical resistance
- Anti-skid properties
- Outstanding impact resistance
- Excellent adhesion to substrate
- Antistatic properties
- Easy to clean
- Easy to apply and repair
- Emission-free

HEGGEL Flex

- Excellent chemical resistance
- Tough-hard and crack-bridging
- Outstanding impact resistance
- High compressive strength
- Scratch resistance properties
- UV-resistant
- Self-leveling
- Self-ventilating
- Emission-free



HEGGEL® Therm

Advanced Thermal Insulation Coating Systems

HEGGEL GmbH has developed **HEGGEL Therm** product line to deliver next-generation solutions for thermal insulation, fire protection, and energy conservation. Leveraging cutting-edge formulation. а HEGGEL systems incorporate **Therm** aerogel-based technology and encapsulated fire-retardant pigments, offering exceptional insulation efficiency, safety, and surface durability across industrial and civil sectors.

The innovative **HEGGEL Therm** range features advanced insulation coatings that form a seamless, hydrophobic, and non-combustible barrier, effectively reducing heat loss, preventing corrosion under insulation (CUI), and ensuring a safe-touch surface for high-temperature environments. Thanks to its highly porous structure, **HEGGEL Therm** offers exceptional thermal and acoustic insulation, while also providing anti-condensation and anti-mold properties.

Designed for multi-layer application with integrated topcoat solutions, **HEGGEL Therm** coatings deliver enhanced weather resistance, mechanical integrity, and long-term durability. These environmentally friendly systems are free from toxic emissions and are ideal for both newbuild and refurbishment projects, setting a new benchmark in high-performance insulation protection.

HEGGEL Therm Core Advantages

- Outstanding thermal insulation with aerogel-based microporous structure
- Safe-touch and fire-retardant finish for personnel protection
- Hydrophobic and breathable, resistant to moisture ingress and CUI
- Compatible with metal and concrete surfaces
- Maximum effect with minimal application at low thickness
- Excellent weather, mold, and humidity resistance
- Environmentally safe, solvent-free and non-toxic under fire conditions



HEGGEL® Therm

Application Areas



- Exterior application on storage tanks, process vessels, and pipelines
- Structural steelwork, industrial metal, and concrete surfaces
- HVAC systems, utility rooms, corridors, and stairways
- Energy-saving insulation for building interiors and exteriors (walls, ceilings, roofs)
- Cold storage and refrigeration units (walls, ceilings, containers)
- Fire-safe coating for indoor and industrial use
- Thermal insulation for hot and cold services

HEGGEL[®] Corr / HEGGEL[®] Coat spray & brush coatings

Product Matrix 1

	Performances	Products
	Tests	Туре
	Viscosity	grade
	Volume solids	%
	DFT typical to maximum	μm (microns)
	Tomporatura recistance	immersed
	Temperature resistance	non-immersed
ĺ	Optional antistatic conductivity	10°Ω
ľ	Impact resistance (ASTM G14)	direct
Ĭ.	impact resistance (AOTM OTT)	reverse
	Abrasion resistance (ASTM D4060)	loss per 1.000 cycles
1	Adhesive strength (ASTM D4541)	MPa
	Adhesive strength (ISO 4624)	MPa
i	Salt spray test (ASTM B117 & D714)	h (hours)
	Salt spray test (ISO 9227:2006-10)	h (hours)
	Cathodic disbondment tests (ASTM G95/G42/G8)	result
	Permeability (ASTM E96)	1.000 hours
	Flexibility / mandrel bend (ASTM D522)	degree of bending
	Deionized water immersion test	hours at 50°C
i	Diluted acids & alkaline solutions: H ₂ SO ₄ , NaOH, HCl, HNO ₃	pH 5 - 10
	Concentrated acids & alkaline solutions: H ₂ SO ₄ , NaOH, HCl, HNO ₄	pH 3 - 12
	Amines: DEA, MDEA, MEA, DGA, ADIP	service temperature
	Combinations of: Amines, H ₂ S, CO ₂ , hydrocarbons	service temperature
	Combinations of: Hydrocarbons and oxygenated solvents	service temperature
	Oils and fuels	service temperature
	Deionized / demineralized water , salt water, seawater, brackish water, wastewater	service temperature

Typical applications

HEGGEL Corr	HEGGEL Corr	HEGGEL Corr	HEGGEL Corr	HEGGEL Coat	HEGGEL Coa				
212	210	220	270	111	133				
semi-paste	brush / spray	brush / spray	brush / spray	spray	spray				
100%	100%	100%	100%	100%	100%				
400 - 4.200 μm	200 - 800 μm	600 - 800 µm	400 - 1.000 μm	300 - 1.000 μm	400 - 1.000 μr				
225°C	190°C	130°C	100°C	90°C	110°C				
280°C	250°C	150°C	200°C	140°C	170°C				
yes	yes	yes	yes	yes	yes				
13	13	10	10	12	12				
3	3	3	3	3	3				
< 20 mg	< 20 mg	< 26 mg	< 32 mg	< 65 mg	< 80 mg				
> 25 MPa	> 30 MPa	> 30 MPa	> 16 MPa	> 24 MPa	> 27 MPa				
> 25 MPa	> 30 MPa	> 30 MPa	> 16 MPa	> 24 MPa	> 27 MPa				
> 20.000 h	> 20.000 h	> 20.000 h	> 20.000 h	> 18.000 h	> 18.000 h				
> 18.000 h	> 18.000 h	> 18.000 h	> 18.000 h	> 15.000 h	> 15.000 h				
no disbondment	no disbondment	no disbondment	no disbondment	no disbondment	no disbondme				
0,00 perms	0,00 perms	0,00 perms	0,00 perms	0,00 perms	0,00 perms				
> 30°	> 30°	> 30°	> 30°	> 30°	> 30°				
> 10.000 h	> 10.000 h	> 10.000 h	> 10.000 h	> 10.000 h	> 10.000 h				
< 170°C	< 150°C	< 130°C	< 80°C	< 60°C	< 60°C				
< 130°C	< 120°C	< 100°C	< 50°C	ambient	ambient				
< 170°C	< 150°C	< 130°C	< 80°C	not recommended	not recommend				
< 160°C	< 150°C	not recommended	not recommended	not recommended	not recommend				
< 170°C	< 150°C	< 80°C	not recommended	not recommended	not recommend				
< 200°C	< 180°C	< 130°C	< 100°C	< 90°C	< 100°C				
< 220°C	< 190°C	< 120°C	< 100°C	< 90°C	< 110°C				

HEGGEL[®] Fix repairing putties & pastes

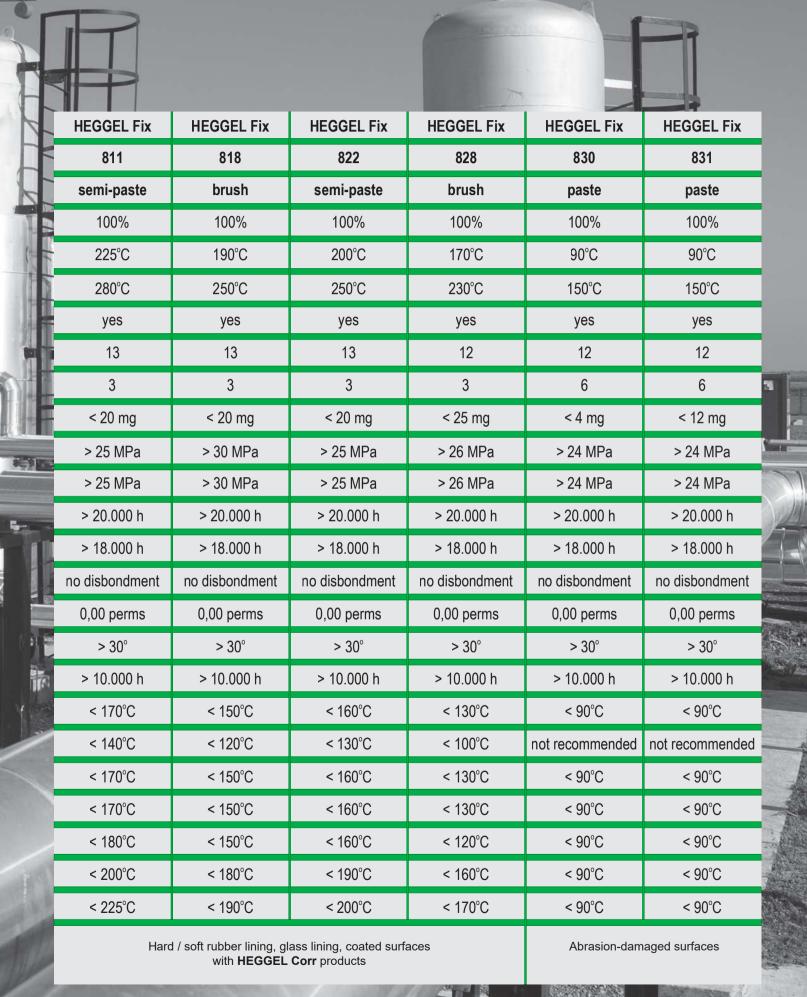
Product Matrix 2

Performances	Products
Tests	Туре
Viscosity	grade
Volume solids	%
Tomporatura registance	immersed
Temperature resistance	non-immersed
Optional antistatic conductivity	10 ⁶ Ω
Impact resistance (ASTM G14)	direct
impact resistance (ASTIVI G14)	reverse
Abrasion resistance (ASTM D4060)	loss per 1.000 cycles
Adhesive strength (ASTM D4541)	MPa
Adhesive strength (ISO 4624)	MPa
Salt spray test (ASTM B117 & D714)	h (hours)
Salt spray test (ISO 9227:2006-10)	h (hours)
Cathodic disbondment tests (ASTM G95/G42/G8)	result
Permeability (ASTM E96)	1.000 hours
Flexibility / mandrel bend (ASTM D522)	degree of bending
Deionized water immersion test	hours at 50°C
Diluted acids & alkaline solutions: H ₂ SO ₄ , NaOH, HCl, HNO ₃	pH 5 - 10
Concentrated acids & alkaline solutions: H ₂ SO ₄ , NaOH, HCl, HNO ₄	pH 3 - 12
Amines: DEA, MDEA, MEA, DGA, ADIP	service temperature
Combinations of: Amines, H ₂ S, CO ₂ , hydrocarbons	service temperature
Combinations of: Hydrocarbons and oxygenated solvents	service temperature
Oils and fuels	service temperature
Deionized / demineralized water, salt water, seawater, brackish water, wastewater	service temperature
Tunical applications	



All data are only intended as a guideline for informational purposes and do not constitute a legally binding warranty of the suitability for a certain purpose of use, due to its dependence on site conditions and possible processing, use and applications.





You Build, We Protect! [20

HEGGEL[®] Mortars chemical resistant mortars

Product Matrix 3

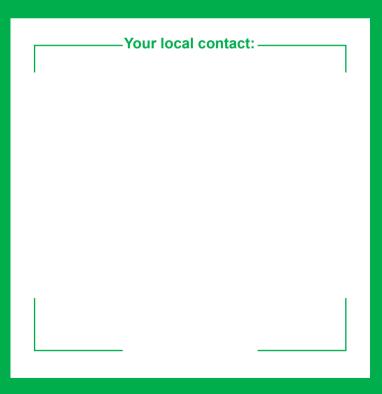
Performances	Products
Tests	Туре
Maximum temperature resistance	°C
Compressive strength (EN ISO 604)	MPa
Adherence to ceramic tiles / bricks (DIN EN ISO 4624)	MPa
Water absorption	% by mass
Acetic acid	100%
Alcohol (Ethanol)	100%
Ammonia	25%
Formaldehyde solution	35%
Formic acid	98%
Hydrochloric acid	37%
Hydrofluoric acid	50%
Methanol	100%
Nitric acid	65%
Oil & Petroleum	100%
Phosphoric acid	85%
Potassium hydroxide	50%
Sodium hydroxide	50%
Sulphuric acid	50%
Calphano dola	98%

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HEGGEL FU	HEGGEL SP	HEGGEL PL	HEGGEL VE	HEGGEL EP
Furan	Potassium / Sodium Silicate	Phenol	Novolac Vinyl Ester	Ероху
220°C	900°C	180°C	120°C	150°C
95 MPa	35 MPa	65 MPa	110 MPa	100 MPa
> 2 MPa	> 1.5 MPa	> inherent tensile strength of substrate	> inherent tensile strength of substrate	> inherent tensile strength of substrate
<1	<1	<1	<1	<1
✓	✓	✓	✓	not recommended
✓	✓	\checkmark	✓	✓
✓	✓	✓	✓	✓
✓	✓	✓	✓	✓
✓	✓	✓	✓	not recommended
✓	✓	✓	✓	✓
✓	not recommended	✓	✓	not recommended
✓	✓	✓	✓	✓
not recommended	✓	not recommended	✓	not recommended
✓	✓	✓	✓	✓
✓	✓	✓	✓	not recommended
✓	not recommended	✓	✓	✓
✓	not recommended	✓	✓	✓
✓	✓	✓	✓	✓
	✓	✓	not recommended	not recommended

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