

NEWSLETTER

HEGGEL® Flex 588



Industry-Spanning Versatility
A Next-Gen Polyurethane
Coating for Industrial Floors

- Enhanced Durability in Mildly Corrosive Conditions
- HEGGEL Flex 588: Premium Polyurethane Coating
- Barrier Against Chemical and Mechanical Stressors



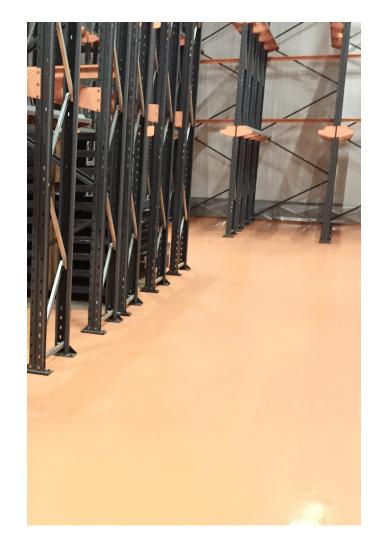


Durable Polyurethane Coating for Ultimate Protection of Industrial Floors

Corrosion is a silent yet relentless adversary in industrial manufacturing, affecting everything from pipelines to production floors. In sectors such as chemical processing, oil and gas, mining, pharmaceuticals, and others where operations involve exposure to aggressive chemicals and significant mechanical demands, corrosion is more than just a nuisance—it is a critical threat. Left unchecked, it can lead to unexpected equipment failures, costly downtime, and serious safety hazards. The challenge for today's industries is to find innovative, resilient, and cost-effective solutions that offer comprehensive protection against this multifaceted problem.

The root of the corrosion issue in many industrial settings lies in the harsh chemical environments these plants operate within. Whether it is the acidic compounds in a chemical processing facility or the potent cleaning agents used in food and beverage plants, the materials used in construction and machinery are constantly under attack. Traditional protective measures often fall short, unable to withstand the diversity and intensity of these chemical exposures. What is needed is a solution that not only resists specific corrosive agents but offers broad-spectrum protection, safeguarding infrastructure from the unpredictable mix of substances it may encounter.

Mechanical demands further complicate the corrosion protection equation. Industrial environments are tough on materials, with machinery that vibrates, impacts, and grinds, creating stress points that can compromise protective layers. Abrasion from foot traffic, heavy loads, and equipment movement can wear down even the most robust coatings over time. The ideal corrosion protection must, therefore, offer more than just chemical resistance; it must also be able to endure these mechanical stresses without losing its integrity. This calls for innovation in polymer science, developing coatings that are not only strong but also flexible and resilient.



Industries increasingly rely on advanced coatings that offer both chemical resistance and mechanical durability to address diverse challenges. These coatings provide comprehensive protection against chemical spills, mechanical wear, and environmental stressors, making them ideal for safeguarding industrial infrastructure, particularly flooring. They ensure long-lasting performance in various environments exposed to corrosive chemicals.

Among these, next-generation coatings stand out as a prime example. These coatings are engineered to form a tough yet flexible barrier capable of withstanding a wide range of corrosive substances while also absorbing the shocks and strains of industrial operations. Their application can significantly enhance the longevity and reliability of industrial assets, reducing the frequency and cost of maintenance and repairs. Furthermore, they represent a shift toward more sustainable, long-term solutions, balancing initial investment with extended performance.

One of the most promising advancements in corrosion protection is the introduction of specialized polyurethane coatings engineered specifically for industrial floors. Unlike standard options, these coatings are meticulously formulated to withstand the unique challenges faced by industrial environments, where floors are highly susceptible to both chemical spills and mechanical wear. Offering unparalleled versatility, these coatings not only absorb impacts and resist cracking but also provide

exceptional chemical resistance against a wide range of substances. For industries where both durability and adaptability are paramount, these coatings represent a cutting-edge solution, far superior to conventional alternatives. By integrating these advanced coatings into your protection strategy, you are not just safeguarding your infrastructure—you are making a strategic investment in the longevity and efficiency of your operations.

HEGGEL Flex 588 with its combination of strength, flexibility, and chemical resistance, is a specific polyurethane coating providing a modern, effective solution that meets the complex demands of today's industrial environments. By choosing such innovative protective measure, industries can not only extend the life of their facilities but also enhance operational efficiency and safety, all while controlling long-term costs.







Flexible Broad Range Chemical Resistant Floor Coating System

HEGGEL Flex 588 is engineered to meet the demanding requirements of various industrial environments, ranging from the rigorous corrosion protection needed in heavy industries to the precision-driven demands of

manufacturing sectors. This coating system delivers consistent, high-level protection, making it an invaluable solution for industries that require reliable and cost-effective safeguarding of their floors and substrates.

Unmatched Chemical Resistance for Long-Lasting Industrial Protection

One of the standout features of **HEGGEL Flex 588** is its exceptional resistance to chemical exposure. Whether dealing with solvents, acids, or other corrosive substances commonly found in industrial plants, this coating system maintains its integrity. This chemical resistance is crucial for preserving the longevity and safety of the underlying substrates, ensuring that concrete and steel surfaces remain unscathed and operational for extended periods.

While tile and mortar systems are commonly used for protection against corrosive chemical exposure and to provide mechanical resistance, they often come with high costs and complex application processes. In contrast, the **HEGGEL Flex 588** coating system offers a reliable and cost-effective solution that addresses both moderate chemical and resistance mechanical requirements.



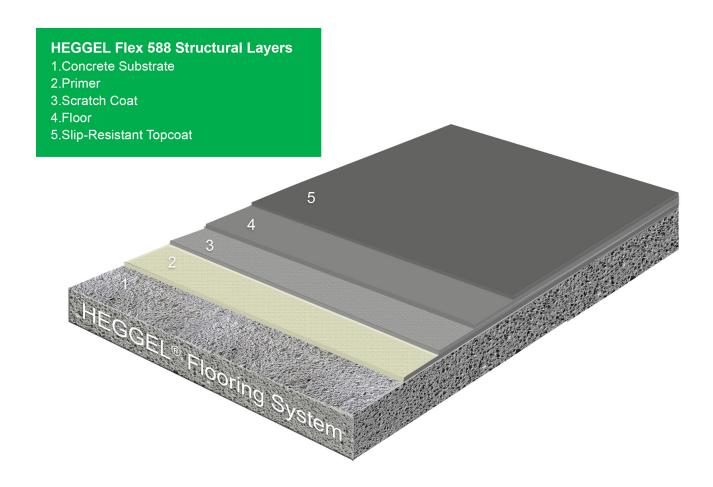




Customizable Layered Protection for Ultimate Durability

HEGGEL Flex 588 stands out with its exceptional capability to construct a fully customized layered structure, making it a game-changer in industrial flooring solutions. By meticulously engineering each layer—such as a primer, scratch coat, floor coating, and slip-resistant topcoat—this

system creates an impermeable and incredibly durable barrier. This versatile layering not only meets specific technical demands but also ensures unmatched corrosion protection for exposed flooring, making it the ultimate choice for long-lasting industrial resilience.







Superior Mechanical Strength and Durability for Heavy-Duty Industrial Floors

In environments where heavy machinery, such as forklifts and other industrial equipment, is in constant use, the mechanical durability of floor coatings becomes critical. **HEGGEL Flex 588** excels in such conditions, offering enhanced resistance to abrasion, impact, and wear, as

well as significant flexural and compressive strength. This combination ensures that even in high-traffic areas, the coating retains its structural integrity, reducing the need for frequent maintenance or repairs and thereby lowering long-term operational costs.





Effortless Application and Maintenance for Maximized Industrial Efficiency

The application process of **HEGGEL Flex 588** is straightforward, making it an efficient choice for industrial operators. The application tools are simple and versatile, including options such as paint rollers, brushes, trowels, spike rollers, and more. Its formulation allows for easy spreading and uniform coverage, leading

to a smooth, professional finish. Additionally, maintaining the coating is hassle-free, with minimal upkeep required to keep the surface in optimal condition. This ease of application and maintenance translates to less downtime and more productivity in industrial settings.





Extended Shelf Life: Ensuring Readiness and Swift Deployment

HEGGEL Flex 588 offers a remarkable shelf life of 24 months, significantly longer than the typical one year shelf life of many competing products. This extended shelf life allows you to stock the product confidently, ensuring it is always available and ready for use when needed. With HEGGEL Flex 588 on hand, you

can respond swiftly to installation and repair demands, minimizing downtime and ensuring continuous operation. This advantage not only enhances your efficiency but also reduces the logistical challenges of frequent reordering, making it a smart choice for maintaining readiness in industrial environments.



Flexibility and Elasticity

HEGGEL Flex 588 stands out for its high flexibility and elasticity, with an impressive 95% elastic deformation, resulting in excellent impact resistance. This makes it an ideal choice for areas subjected to significant vibrations and stresses, such as those found in the mining industry. Unlike other coatings that, while highly resistant to aggressive chemicals, are

prone to cracking under intense vibrations, HEGGEL Flex 588 effectively combines chemical resistance with mechanical resilience. Additionally, the flexibility of HEGGEL Flex 588 contributes to its considerable temperature resistance, offering a versatile, multi-functional barrier for demanding industrial settings.

Technical Data	Value	Unit
Flexural Strength ASTM C 588	8	MPa
Compressive Strength ASTM C 579	21	MPa
Electrical Resistance ASTM F 150/98	10 14	Ohm
Elongation at Tear ASTM C 307	10	%
Hardness Shore A	95	-
Tensile Strength ASTM C 307	4.5	MPa