

**BERGOLIN** INDUSTRIAL COATINGS

**Bergolin Industrial Coatings**

**Shapely Functional**

# Shapely Functional

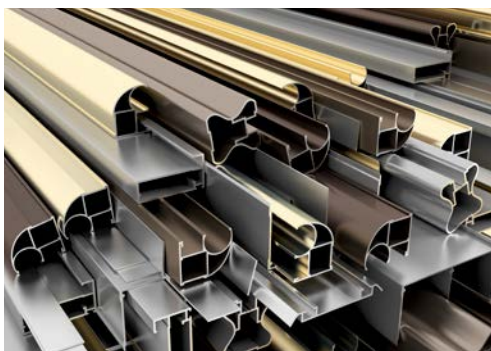
Perfect surfaces with maximum functionality

**Shapely Functional - this not only describes versatile functionality of our coatings, but also their superb look and feel, helping to give your products an exceptionally high-quality appearance.**

These are properties that we have perfected in co-operation with our customers over decades. With their help we have been able to implement many different projects and innovations, thus gaining us extensive expertise that helps us meet the demanding and varied expectations of customers in the industrial coatings sector.

Working closely together at all levels ensures that, in addition to the requirements for product properties, Bergolin coating solutions are also perfectly adjusted to their application and manufacturing processes.

But we are not only available to our customers as production and technology partners, but also as a source of ideas. This often brings about a creative dialogue that generates completely new solutions that combine economy with excellent results that set a trend for the future.



Type	Applications	Name	Page
<b>General Industry</b>			
Primer	Switchgear, machinery, materials handling	Bermid Universal-Grund	5
Primer	Pumps, foundries	Hydro-Grundierung	5
Primer	Vehicles, machinery	HS-Grundierung	5
Primer	Machinery, containers, vehicles	Epex ZP-Grund	5
Primer	Machinery, steel structures, vehicles	Epex UHS-Grundierung	5
Primer	Aluminium, facades, machinery, steel construction	Superdur ZP-Haftgrund	5
Primer	Machinery, steel structures	Bergopur WV-Primer	6
One-coat	Transport and conveyor vehicles	Hydro-Einschichtlack	6
One-coat	Commercial vehicle and truck chassis	Superdur HS-Einschichtlack	6
Clearcoat	Facades	2K-PUR-Klarlack	6
Topcoat	Machinery, electrical cabinets, safes	Ehalit Strukturlack	6
Topcoat	Machinery, components, structures, tools	Superdur Top-Strukturlack	6
Topcoat	Facades, machinery, structures, gates	Superdur Excellent HS-Topcoat	7
Topcoat	Garage doors, machinery, structures	2K-HS-Industrie-Topcoat	7
Topcoat	Machinery, door closers	2K-PUR-Decklack WV	7
Topcoat	Construction and agricultural machinery, plastic doors	Bergodur HS-Decklack	7
Topcoat	Construction and agricultural machinery	Superdur 2K-Decklack	7
<b>Specialty Coatings</b>			
Primer	Doors	Superdur Füllgrund	9
Basecoat	Aluminium wheels	HS-Basecoat	9
Basecoat	Aluminium wheels	UHS-Basecoat	9
Basecoat	Aluminium wheels	Basecoat, wässrig	9
One-coat	Drive train, suspension, shock absorbers, brakes	EP-Lackfarbe	10
One-coat	Drive train, suspension, brakes	KH-Lackfarbe	10
One-coat	Drive train, suspension, brakes	Steopox Aqua-Stamm	10
One-coat	Aluminium decorative foil for indoor use	Aluminium-Schutzlack	10
One-coat	Aluminium foil	2K-Alu-Protect	11
One-coat	Aluminium foil	Alu-Protect	11
Clearcoat	Aluminium wheels	HS-Clearcoat	11
Topcoat	Windows and doors	Superdur Plus Decklack	11

## Other coating solutions

In addition to our top sellers, our product range includes numerous other coating solutions, which cover a variety of other areas of application in industry in addition to those listed.

Just talk it through with your personal customer advisor, who will work with you to find a customised solution. Contact details can be found on the back of this brochure.



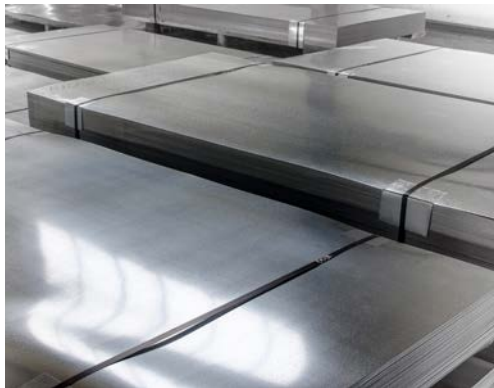
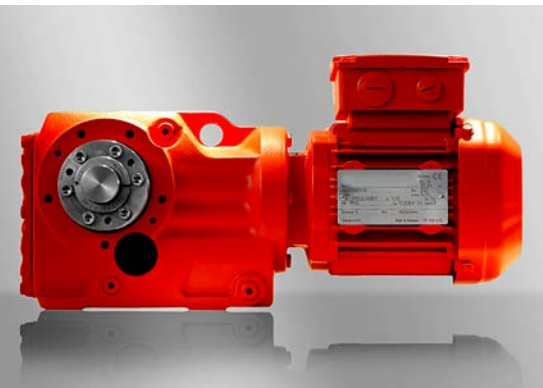
# General Industry

Different boundary conditions – same quality

**Bergolin general industrial coatings are not just designed for a particular application, but are universal. This means that the coatings offer a consistent quality with different boundary conditions – such as with various metallic substrates or application types.**

Alongside the look and feel, this affects the constant functionality, too. For example, this means that production processes can be adjusted without risking any negative consequences to corrosion protection or chemical resistance.

The Bergolin industrial paint program includes numerous coating solutions using a high solid, ultra high solid or aqueous base. The resulting low VOC balance helps you comply with the legal rules and respect the environment too.



# Top seller

## Primer

### Primer

	Bermid Universal-Grund	Hydro-Grundierung	HS-Grundierung
Base	Polyvinyl butyl primer	Hybrid system primer	2K polyacrylate primer
Field of application	e.g. switchgear, machinery, materials handling	e.g. pumps, foundries	e.g. vehicles, machinery
Colour	Pigmented (brown, grey, white)*	Pigmented (brown, grey, white)*	Pigmented (brown, grey, white)*
Substrate	Steel, cast iron, aluminium, zinc	Steel, galvanised steel, zinc and iron phosphating	Steel, blasted steel, zinc and iron phosphating
Application	Spraying	Spraying, dipping	Spraying (high pressure, airmix/airless), rolling, brushing
Benefits			
	<ul style="list-style-type: none"> <li>Fast drying</li> <li>Good adhesion</li> <li>Can be painted over with various coatings</li> </ul>	<ul style="list-style-type: none"> <li>Can be diluted with water</li> <li>Fast drying</li> <li>Good corrosion protection</li> </ul>	<ul style="list-style-type: none"> <li>Low solvent</li> <li>Good drying</li> <li>Good corrosion protection</li> </ul>

	Epex ZP-Grund	Epex UHS-Grundierung	Superdur ZP-Haftgrund
Base	2K epoxy zinc phosphate primer	2K epoxy primer	2K PU epoxy-isocyanate primer
Field of application	e.g. machinery, containers, vehicles	e.g. machinery, steel structures, vehicles	e.g. aluminium, facades, machinery, steel construction
Colour	Pigmented (sand, oxide red)*	Pigmented (white, beige, light grey)*	Pigmented (grey)*
Substrate	Sheet steel	Blasted sheet steel, galvanised steel, aluminium	Various metallic substrates
Application	Spraying (airmix/airless)	Spraying (high pressure, airmix/airless)	Spraying (high pressure, airless), roller, brush
Benefits			
	<ul style="list-style-type: none"> <li>Very good corrosion protection</li> </ul>	<ul style="list-style-type: none"> <li>Ultra-high solid content</li> <li>Good corrosion protection</li> <li>High chemical resistance</li> </ul>	<ul style="list-style-type: none"> <li>Very good corrosion protection</li> <li>Very good adhesion on aluminium</li> </ul>

\* Other colours available on request

# Top seller

Primer, One-coat, Clearcoat, Topcoat

## Primer

## One-coat

	Bergopur WV-Primer	Hydro-Einschichtlack	Superdur HS-Einschichtlack
Base	2K polyurethane primer	Resin polymer one-coat	2K polyurethane one-coat
Field of application	e.g. machinery, steel structures	e.g. transport, conveyor vehicles	e.g. commercial vehicle, truck chassis
Colour	Pigmented (various)	Pigmented (various)	Pigmented (various)
Substrate	Blasted sheet steel, galvanised steel, aluminium, zinc and iron phosphating	Steel, blasted steel, zinc and iron phosphating, cast iron	Steel, aluminium, galvanised steel
Application	Spraying (high pressure, low pressure, airmix), electrostatic high-rotation system	Spraying	Spraying (high pressure, low pressure, airmix)
Benefits			
	<ul style="list-style-type: none"> <li>Aqueous</li> <li>Very good corrosion protection</li> <li>Good adhesion</li> </ul>	<ul style="list-style-type: none"> <li>Aqueous</li> <li>Fast drying</li> <li>Good corrosion protection</li> </ul>	<ul style="list-style-type: none"> <li>Low solvent</li> <li>Active corrosion protection</li> </ul>

## Clearcoat

## Topcoat

	2K-PUR-Klarlack	Ehalit Strukturlack	Superdur Top-Strukturlack
Base	2K polyurethane clearcoat	2K polyurethane topcoat	2K polyurethane acrylic topcoat
Field of application	Facades	Machinery, electrical cabinets, safes	e.g. machinery, components, structures, tools
Colour	Transparent	Pigmented (various)	Pigmented (various)
Substrate	Plastic, aluminium	Primed metal surfaces (e.g. as with Superdur ZP base coat)	Primed, filled, sanded surfaces
Application	Spraying	Spraying (high pressure)	Spraying (high pressure, low pressure, airmix)
Benefits			
	<ul style="list-style-type: none"> <li>Good UV and weather resistance</li> </ul>	<ul style="list-style-type: none"> <li>Very good mechanical and chemical resistance</li> <li>Good weather resistance</li> </ul>	<ul style="list-style-type: none"> <li>Silicone free</li> <li>Electrostatically processable</li> <li>UV and weather resistant</li> <li>High resistance to fuels and oils</li> <li>Scratch resistant</li> </ul>

# Top seller

## Topcoat

### Topcoat

	Superdur Excellent HS-Topcoat	2K-HS-Industrie-Topcoat
Base	2K polyurethane acrylic topcoat	2K polyurethane acrylic topcoat
Field of application	e.g. facades, machinery, structures, gates	e.g. garage doors, machinery, structures
Colour	Pigmented (various)	Pigmented (various)
Substrate	Primed, filled, sanded surfaces	Primed, filled, sanded surfaces
Application	Spraying (high pressure, low pressure, airmix)	Spraying (high pressure, airmix/airless)
Benefits		
	<ul style="list-style-type: none"> <li>• Good UV and weather resistance</li> <li>• High solid</li> <li>• High-gloss</li> <li>• Long open time</li> </ul>	<ul style="list-style-type: none"> <li>• Good UV and weather resistance</li> <li>• High solid</li> </ul>

	2K-PUR-Decklack WV	Bergodur HS-Decklack	Superdur 2K-Decklack
Base	2K polyurethane topcoat	Polyester polyacrylate topcoat	2K polyurethane topcoat
Field of application	Machinery, door closers	e.g. construction and agricultural machinery, plastic doors	Construction and agricultural machinery
Colour	Pigmented (various)	Pigmented (various)	Pigmented (various)
Substrate	Various metal substrates, plastic	Various primed surfaces	Primed sheet steel
Application	Spraying (high pressure, low pressure, airmix), electrostatic high-rotation system	Spraying (airmix)	Spraying (airmix/airless)
Benefits			
	<ul style="list-style-type: none"> <li>• Can be diluted with water</li> <li>• Excellent UV and weather resistance</li> <li>• Good corrosion protection</li> </ul>	<ul style="list-style-type: none"> <li>• High solid</li> <li>• Weather resistant</li> </ul>	<ul style="list-style-type: none"> <li>• Good UV and weather resistance</li> <li>• Good corrosion protection</li> </ul>



# Speciality Coatings

Perfectly adjusted to your requirements

**Bergolin special coatings have the same properties as general industrial paints. They are tremendously chemically and mechanically resistant and have excellent corrosion protection characteristics. In addition, however, they also meet the requirements of specific tasks.**

The automotive sector is the best example here. Functional parts such as wheels or shock absorbers are subject to extreme chemical and mechanical loads, so the coating must have a resistance that goes far beyond normal.

The requirements for production processes can also be optimally adjusted using special coatings. What type of application you are using it for or the drying and storage conditions play a minor role as the coatings are tailored to your individual requirements.





# Top seller

Primer, Basecoat

## Primer

## Basecoat

	Superdur Füllgrund	HS-Basecoat
Base	2K acrylic polyisocyanate primer	Polyester melamine resin basecoat
Field of application	e.g. doors	e.g. aluminium wheels
Colour	Pigmented (white)*	Pigmented (various metallic colours)
Substrate	Metal and fiberglass surfaces	Undercoated aluminium
Application	Spraying (high pressure, airless), roller, brush	Spraying
Benefits		
	<ul style="list-style-type: none"><li>• Good adhesion to fibreglass parts</li><li>• Good sanding properties</li></ul>	<ul style="list-style-type: none"><li>• High solid</li><li>• Can be coated after 10 minutes wet-on-wet</li></ul>

	UHS-Basecoat	Basecoat, wässrig
Base	Polyester melamine resin basecoat	Acrylic polyester basecoat
Field of application	e.g. aluminium wheels	e.g. aluminium wheels
Colour	Pigmented (various metallic colours)	Pigmented (various metallic colours)
Substrate	Primed aluminium	Primed aluminium
Application	Spraying	Spraying
Benefits		
	<ul style="list-style-type: none"><li>• Ultra high solid</li><li>• Can be coated after 10 minutes wet-on-wet</li></ul>	<ul style="list-style-type: none"><li>• Can be diluted with water</li><li>• Can be coated after 30 minutes with clear lacquer powder</li></ul>

\* Other colours available on request

# Top seller

One-coat



## One-coat

	EP-Lackfarbe	KH-Lackfarbe
Base	2K epoxy one-coat	Hybrid system one-coat
Field of application	e.g. drive train, suspension, shock absorbers, brakes	e.g. drive train, suspension, brakes
Colour	Pigmented (black)*	Pigmented (black)*
Substrate	Sheet steel	Steel, blasted and galvanised steel, aluminium, zinc and iron phosphating
Application	Spraying (airmix/airless), bell	Spraying, dipping
Benefits		
	<ul style="list-style-type: none"><li>• Very good corrosion protection</li><li>• Very good mechanical and chemical resistance</li></ul>	<ul style="list-style-type: none"><li>• Can be diluted with water</li><li>• Fast drying</li><li>• Good corrosion protection</li></ul>

	Steopox Aqua-Stamm	Aluminium-Schutzlack
Base	2K epoxy one-coat	Polyester amino resin one-coat
Field of application	e.g. drive train, suspension, brakes	e.g. aluminium decorative foil for indoor use
Colour	Transparent	Transparent
Substrate	Sheet steel	Primed aluminium
Application	Spraying (airless), bell	Coil coating, rolling
Benefits		
	<ul style="list-style-type: none"><li>• Very good corrosion protection</li><li>• Very good mechanical and chemical resistance</li></ul>	<ul style="list-style-type: none"><li>• High resistance to household chemicals</li><li>• Good lightfastness</li></ul>

\* Other colours available on request

# Top seller

One-coat, Clearcoat, Topcoat



## One-coat

	2K-Alu-Protect	Alu-Protect
Base	2K epoxy amino resin one-coat	2K epoxy amino resin one-coat
Field of application	e.g. aluminium foil	e.g. aluminium foil
Colour	Transparent	Pigmented (steel colour)
Substrate	Primed aluminium	Primed aluminium
Application	Coil coating, anilox roll coating	Coil coating, anilox roll coating
Benefits		
	<ul style="list-style-type: none"> <li>High chemical resistance</li> </ul>	<ul style="list-style-type: none"> <li>High chemical resistance</li> </ul>

## Clearcoat

## Topcoat

	HS-Clearcoat	Superdur Plus Decklack
Base	Acrylic melamine clearcoat	2K polyurethane topcoat
Field of application	e.g. aluminium wheels	e.g. fibreglass and aluminium parts for windows and doors
Colour	Transparent	Pigmented (various)
Substrate	Coated aluminium	Primed metal and fibreglass surfaces (e.g. as with Superdur filling basecoat)
Application	Spraying	Spraying
Benefits		
	<ul style="list-style-type: none"> <li>Excellent UV and weather resistance</li> <li>Good impact and scratch resistance</li> </ul>	<ul style="list-style-type: none"> <li>Excellent UV and weather resistance</li> </ul>



# Case Study ThyssenKrupp Bilstein GmbH

## Coating of shock absorbers



### The Company

ThyssenKrupp Bilstein GmbH, headquartered in Ennepetal, Germany, is a global company operating in the suspension technology field. Core competencies include the development and production of various models of shock absorber. Its customers include almost all leading car manufacturers.

### The initial situation

To provide corrosion protection for the shock absorber, Bergolin used a coating system in which the substrate was first pre-treated by phosphating and then coated with a 2K epoxy resin coating. This system withstood up to 6 cycles of the VDA climate tests without losing the corrosion protection. However, due to changes in specifications in the automotive industry, the coating should in future withstand 10 cycles of the VDA climate tests, to ensure even better durability.

At the same time a new plant was put into operation that would exceed the production volume of the two old plants.

### The requirements

The coating should meet the higher corrosion protection requirements and at the same time be suitable for universal application modes, so that the coating could be applied using both the old equipment with manual and bell application as well as on the new system using electrostatic and robot application. In addition, the use of solvents should be further reduced.

### The Solution

Using intensive research methods, Bergolin continuously developed the recipe in the running process at ThyssenKrupp Bilstein GmbH, working on the flexibility of the coating and, by adding special pigments, ensured that the requirements of the car manufacturers were satisfied in every respect. The use of solvents could also be significantly reduced by switching to an aqueous system.

### The Effects

Due to their rapid response to the requirements of the automotive manufacturers, ThyssenKrupp Bilstein GmbH was able to take up additional capacity and since then has benefited from a constantly growing order volume.

The superb cooperation between Bergolin, the customer, the plant manufacturer and the pre-treatment provider meant that nothing stood in the way of a quick and easy start-up. This meant that ThyssenKrupp Bilstein GmbH was able to further improve the quality of its products and again shorten production times by using a more efficient process.

## Successful projects in numerous segments

The ThyssenKrupp Bilstein GmbH case study is representative of many that have already been successfully implemented by Bergolin in a wide range of applications of industrial coatings.

In the following gallery you can find more sample segments where we have also carried through successful projects.

## Sample segments in which other successful projects have been carried out

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Vehicle parts



Vehicle interiors



Aluminium wheels



Machinery and plant



Construction machinery



Agricultural machinery



Facades



Metal parts



Doors and gates

# 6 Reasons

to work with Bergolin

01

Plant

## Modern Plant

Bergolin moved to a new factory in 2012. Among other aspects, this modern facility offers a large application technology centre in which the majority of tests can be carried out. We also have large research and testing laboratories in which we continuously develop our products ensuring consistent quality.



02

Problem  
solving

## Individual Problem Solving

Many vendors work with a standard range with which in principle good coatings can be produced. In practice, this often leads to problems such as failing to adapt the product to the application plant or the environmental conditions prevailing on site. For this reason, users are obliged to continuously make concessions, leading to, for example, longer processing times or higher rejection rates and consequently higher costs.

Bergolin not only adjusts its coating systems to meet your needs, but develops completely new solutions with you, so you no longer have to accept any compromises.

03

Technical  
support

## Technical Support

Our application engineers are fully trained and have many years of experience with a wide variety of products and equipment. Whether in the planning and implementation of new systems or in solving application problems, our technicians always provide you with competent help. For us, a comprehensive onsite service is a matter of course.

We are in constant dialogue with processors and equipment manufacturers to continuously improve our expertise, enabling us to help our clients optimise their processes.



## 04 R&D

### Research and Development

About 30% of our employees come from the R & D sector – so we can guarantee that our products are always up to date. Working together with our customers we develop individual coating solutions that meet our customers' demands for innovation and efficiency- and even surpass them.



## 05 ATC

### Application Technology Centre

Our extensive application technology centre not only enables us to perform numerous tests directly in-house, thus avoiding any potential problems in advance, but also serves as a training centre. Here we are able to train your staff and prepare them for future tasks.

At these training courses, your employees learn how to use our coating systems in the most efficient way, so that mistakes and the associated poor coatings are minimised, saving both money and time.

## 06 QM

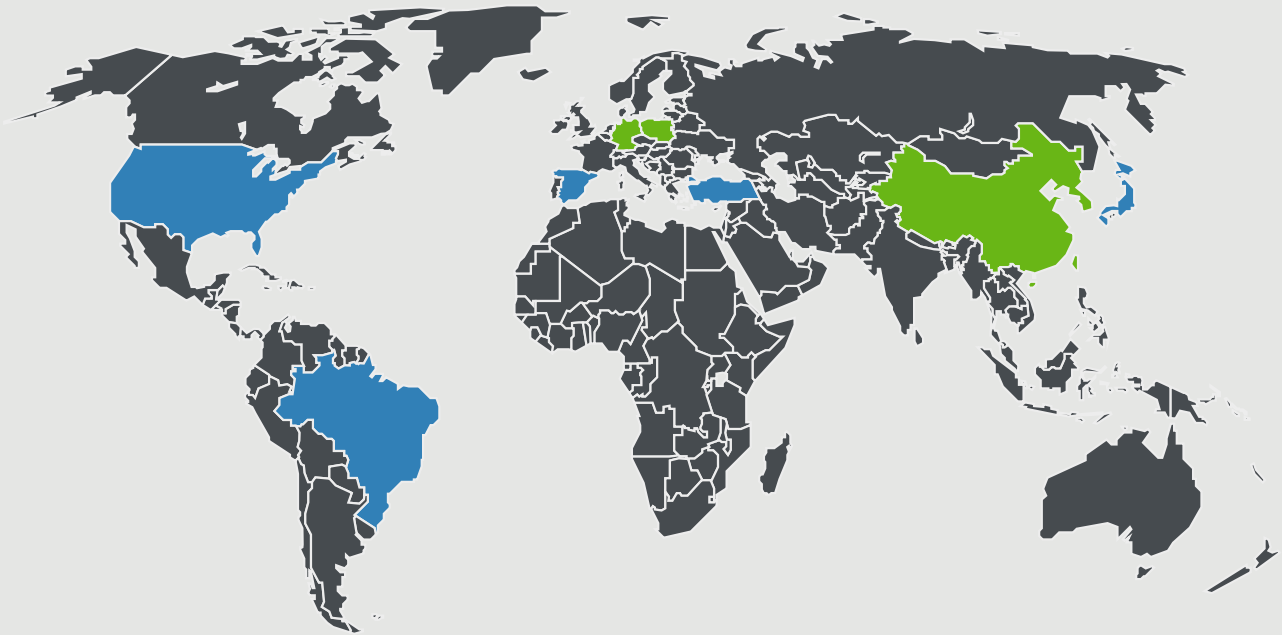
### Quality Management (DIN EN ISO 9001:2008)



At Bergolin, our focus has always been on the customer. We place the highest demands on our products and related services and meet comprehensive ranges of technical and environmental standards.

In order to be able to offer our customers the best possible mix of functionality and economy in the future, we are constantly working to improve our products and processes. This traditional corporate culture also finds expression in our certification to **DIN EN ISO 9001:2008**.



# BERGOLIN WORLDWIDE



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## Sales Representation

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