



HIGH TEMPERATURE RESISTANT COATINGS

THERMODUR

KANSAI HELIOS
IS ONE OF THE
WORLD'S
LEADING
PRODUCERS
OF INDUSTRIAL
COATINGS.

"DESIGNING EXCELLENCE"



HIGHTECH COATINGS FOR DIFFERENT INDUSTRIAL REQUIREMENTS

KANSAI HELIOS Austria has been a specialist in industrial high-performance coatings since 1937, which today include corrosion protection systems, ACE coatings, railway coatings, **high-heat resistant coatings under the brand Thermodur**, road marking materials, zinc flake coatings, and the market-leading Rembrandtin core plate varnishes. KANSAI HELIOS is one of the few complete system suppliers in Europe, offering perfectly aligned coating systems: liquid coatings, powder coatings, gelcoats, e-coat as well as industrial adhesives and sealants.

As part of KANSAI PAINT, one of the world's leaders in the paints and coatings industry, KANSAI HELIOS represents the European competence center of the group. We focus on high-quality products, long-term cooperation and a strong technical support. With our own modern and fully equipped production sites and our well-located field offices throughout Europe, KANSAI HELIOS serves customers in more than 60 countries worldwide. We share our long-term experience with our partners through our renowned IKI symposia and technical trainings.

„DESIGNING EXCELLENCE“ – R&D AT THE HIGHEST LEVEL

At KANSAI HELIOS research and development is based on the highest standards, extensive know-how and a passion for inventive product solutions. We drive progress and innovation in our high-end laboratories. Looking far ahead, our experienced R&D teams formulate, develop and test high-performance coatings and paints, chemicals for bleaching and cleaning as well as materials for sticking and sealing that meet the high criteria of future product quality – especially with regard to the environment.

CREATING MORE VALUE FROM LESS RESOURCES

The KANSAI HELIOS Group is committed to the principles of sustainable development and relies on clean, energy-saving production technologies and the responsible use of resources. Accordingly, environmental protection and a strong ESG management are a key focus for us, not only in product development, but along the entire value chain and in all areas of the Group.



THERMODUR – HEAT RESISTANT IN MORE THAN 20 COLOURS

For many years major manufacturers of heat stressed appliances throughout the world have relied on the colour innovations from KANSAI HELIOS Austria. With the THERMODUR series, we offer the perfect coating in optimal quality **for every application in the high temperature resistance sector.**

Besides their specific properties, all of our THERMODUR coatings have one thing in common: They open up previously **undreamt-of possibilities for the design of your product.** More than 20 colour shades are available for the design of product.



THERMODUR:
BECAUSE
COLOUR IS AN
IMPORTANT
SALES
ARGUMENT.



PRODUCT PROGRAM

OVEN SYSTEMS

STANDARD SYSTEM

Thermodur 250 SQ
Thermodur 300 TOP COAT
Thermodur 600 STAN
Thermodur Hot-Plate Coating

ANTI-SMOKE SYSTEM

Thermodur 600 ASS HSR
Thermodur 600 ASS HS
Thermodur 600 ASS BBQ
Thermodur 600 HPNS 1K
Thermodur 600 ASS

AQUA SYSTEM

Thermodur PURE
Thermodur 600 AQUA

EXHAUST PAINTS

Thermodur 600 ASS EX
Chemolit Top Coat
Zinkalit Base Coat

STEEL SYSTEMS

Thermodur Scale X
Thermodur Scale K 12124

HIGH TEMPERATURE ANTI CORROSION SYSTEMS

Remisol S ALU
Remisol Titanium CUI
Remosil OM 500

OVEN SYSTEMS

Thermodur coatings can be processed with **all common application systems** and are also suitable for **robot lacquering**. Fireplaces, smoke pipes, heaters, toasters & co. shine in current trend colours thanks to the **one-coat finish** with this decorative, heat-curing silicone coating. They open up many **design possibilities**: In addition to a wide range of RAL colour shades, glossy or matt colour options can also be supplied, individually according to customer requirements. Use the magic of colours for your products. Even **unusual design ideas** are possible.

STANDARD SYSTEM

With our standard systems, a wide range of product lines can be enhanced and permanently protected. A **temperature range from 250 to 650°C** can be covered thanks to these products. Our standard products offer **very good colour stability** and excellent adhesion even at higher temperatures on non-blasted substrates.

THERMODUR 250 SQ

The one-coat finish with a **decorative heat-curing silicone** coating makes heaters, toasters & co. shine in trendy colours. Thermodur 250 SQ is applied by **spraying** and can **withstand temperatures of up to 250°C**. This coating opens up a wide range of design possibilities: In addition to a multitude of RAL shades, it can also be supplied in **gloss or matt** according to individual customer requirements. The magic of colours enables manufacturers of **great product innovations** – because colour is also an important sales argument.

THERMODUR 300 TOP COAT

Decorative one-coat varnish based on a **modified silicone resin**. Thermodur 300 TOPCOAT is particularly characterised by its **high gloss, colour stability** and **hard surface**. It is **resistant up to 400°C** throughout.

THERMODUR 600 STAN

THERMODUR 600 STAN is the **ideal coating** for all **stoves, stove inserts and flue pipes**. Among its special features are **very good colour retention** even at high temperatures and **excellent adhesion to non-shotblasted subsurfaces**. The coating, which can withstand **temperatures of up to 600°C** can be applied with all common application systems. The use of a painting robot is also possible with Thermodur 600 STAN. Thanks to the **large selection of colour shades**, even the most unusual design ideas can be realized with THERMODUR 600 STAN.



THERMODUR HOT-PLATE COATING

This high temperature resistant **silicone single-layer coating system** has been developed specifically for the **special requirements in the hotplate industry** and impresses with **exceptional resistance to abrasion**. Thermodur hotplate coatings **can be exposed continuously to 600°C**. For the red spot in the middle, which marks the rapid hotplate, we also have a suitable marking colour in our product range. Because we develop solutions for you, which not only make life colourful, but also easier.

ANTI-SMOKE SYSTEM

When a stove is heated for the first time to above 200°C normally an oxidation or carbonisation process begins, during which the organic component of the stove enamel (parts of the silicone resin) is converted into an inorganic matrix. This is accompanied by a visible development of smoke. Not with THERMODUR 600 ASS. The development of this coating focused on **avoiding this smoke development when heating for the first time**. Through **special cross-links** the stove enamel achieves its **final mechanical hardness** already at **room temperature** and therefore **does not develop any smoke**. The enamel is available in **many brilliant colour shades** and is optimal for stoves, stove inserts as well as flue pipes.

THERMODUR 600 ASS HSR

High-temperature resistant **2-component oven coating** which is characterised by its **high gloss level, easy cleaning and high surface hardness at temperatures up to 350°C**. Thermodur 600 ASS HSR has a **low VOC content** – this makes a **positive contribution to the environment**.

THERMODUR 600 ASS HS

High-temperature resistant **2-component oven coating** with **excellent temperature resistance and colour retention at 600°C**. **No smoke development** during first heating. The film thickness is approx. 20 µm TSD.

THERMODUR 600 ASS BBQ

This high-temperature resistant **2-component coating** has been especially developed for the **exterior coating of smokers and barbecues**, which are used in the outdoor area. Thermodur 600 ASS BBQ impresses with **excellent corrosion resistance in single-coat painting up to 600°C**.

THERMODUR 600 HPNS 1K

This high temperature resistant **1-component oven coating** is based on a **special silicone resin**. THERMODUR 600 HPNS 1K impresses with **excellent temperature resistance, no smoke development during first heating and colour retention up to 600°C**.

THERMODUR 600 ASS

High temperature resistant **2-component oven coating** based on a **special silicone resin**. This coating impresses with its **excellent temperature resistance and colour retention up to 600 °C**. **No smoke development** during first heating, **high mechanical hardness** before first heating as well as **no sticking of the sealing cord** are the properties of this THERMODUR coating.





AQUA SYSTEM

The environmental regulations (VOC regulation) in the processing industry are becoming increasingly restrictive. Manufacturers are therefore increasingly looking for alternatives to solvent-based varnishes. THERMODUR PURE and THERMODUR 600 AQUA are **water-thinnable alternatives** to Thermotur 600 ASS and Thermotur 600 STAN.

THERMODUR PURE

THERMODUR PURE is a further development of THERMODUR 600 ASS and combines the advantages of both products. THERMODUR PURE have the same outstanding properties: **avoidance of smoke formation during first heating** and a **high temperature resistance**. By using these oven coatings, manufacturers **meet all environmental requirements** without having to compromise on quality.

THERMODUR 600 AQUA

Thermotur 600 Aqua is the **ideal water-based coating** for **stoves and flue pipes**. It is characterised by **very good colour stability** even at high temperatures. Thermotur 600 Aqua has **excellent adhesion to steel substrates**.



EXHAUST PAINTS

With our exhaust coatings, our customers can rely on our **decades of experience** in the areas of **corrosion protection and high-heat resistant systems** and expect **optimal product solutions**. Because we know what is important for exhaust paints: very high temperature resistance, excellent corrosion protection, chemical resistance, UV resistance, good colour and gloss retention, easy application and processing properties, fast drying.

THERMODUR 600 ASS EX

High-temperature resistant **2-component paint** specially developed for **painting steel and stainless steel exhausts**. The coating impresses with **excellent corrosion resistance** in one-coat as well as **temperature resistance and colour retention up to 600°C**. **No smoke development** during first operation.

CHEMOLIT TOPCOAT

High temperature resistant **1-component exhaust paint** based on a **special silicone resin**. Fields of application: Exhaust pipes, exhaust silencer systems made of stainless steel and aluminized steel.

ZINKALIT PRIMER

Highly heat-resistant **one-coat coating** based on an **epoxy ester**. Can be painted over with CHEMOLIT topcoat. Fields of application: Exhaust silencer systems made of aluminized steel, stainless steel. Zinc dust paint: Highly pigmented, fast drying, universally applicable. Zinkalit Basecoat is **permanently temperature-resistant up to 300°C** and has very good **corrosion protection, dries quickly** and can be used **universally**.

THERMODUR
COATINGS
ARE
ECONOMICAL,
FUNCTIONAL
AND MEET THE
HIGHEST QUALITY
STANDARDS.



STEEL SYSTEMS

When annealing metals, scaling often occurs and therefore unwanted material loss. Thermodur Scale X **prevents the formation of scale** on the surface and **prevents oxidation layers**. This ensures uniform heating and cooling and **significantly reduces deformation** during heat treatment. The rolling in of scale by the rollers of the continuous furnace is prevented, thus no scarring occurs.

THERMODUR SCALE X

Thermodur Scale X **prevents the formation of scale** on the surface of **heavy plates and profiles** in continuous and insert furnaces **up to 970°C**. It also **prevents oxidation layers** on copper and brass alloys.

THERMODUR SCALE K 12124

Thermodur Scale K 12124 **prevents the formation of scale** on the surface of **heavy plates and profiles** in continuous and insert furnaces **up to 950°C**. It also prevents oxidation layers on copper and brass alloys.



HIGH TEMPERATURE ANTI-CORROSION SYSTEMS

These systems are based on **special silicone resins**. The coatings are impressive due to their **high temperature resistance** and **excellent corrosion protection properties**. This means that steel structures exposed to high temperatures can be **permanently protected**.

REMOSIL OM 500

A specially developed **1-component zinc dust primer** based on an **ethyl silicate**. Especially suitable for constructions exposed to high temperatures which require a high level of corrosion protection.

REMOSIL S ALU

Specially developed high-heat resistant coating based on **cross-linking silicone resin** with **metallic aluminium flakes**. Suitable for **interior use as a single-layer coating** with temperature resistance **up to 600°C**. Suitable for **exterior use as top coat** of Remosil OM 500 with temperature resistance up to 500°C.

REMOSIL TITANIUM CUI

This high-temperature resistant **2-component coating** is based on a **special silicone resin** with **very good corrosion protection properties**. The coating is reliable due to its high temperature resistance at temperatures **up to 600°C** and was **specially developed to prevent corrosion under insulation (CUI)**.



INDIVIDUAL HIGH HEAT RESISTANT COATINGS

In the past, fireplaces were simply used to heat the rooms where people lived. Manufacturers of fireplace coatings focused only on the functionality of the coatings – while

accepting limitations with regard to appearance and design. When the stoves were put into operation, the colour shade changed very quickly. We are aware of these challenges. That is why we are continuously developing our **specialised R&D team** to offer you not only the highest product quality, but also the **best advice and knowledge transfer**.



TECHNICAL SUPPORT

- ✓ We develop high heat resistant coatings that best fit the customer's requirements, before and after purchase.
- ✓ We provide detailed product information as well as application, processing and maintenance instructions to help our customers achieve excellent performance.
- ✓ Our working instructions provide an overview of the application procedures for our products.



KNOW-HOW TRANSFER

- ✓ KANSAI HELIOS Master Classes: a series of unique, high-level training courses, webinars and our renowned IKI symposias.
- ✓ We offer on-site technical training.
- ✓ Regular news on our YouTube Channel.



								DRYING	LAYER THICKNESS	SOLID CONTENT	HEAT REISTANT UP TO		
•	•							20 min./200 °C	20–25µ TSD/ DFT	ca. 60%	180°C 200°C 250°C	THERMODUR 250	
•	•	•						15 min. /180°C	15–30 µm	50%*	300°C	THERMODUR 300 TopCoat	
	•	•						Air drying	15–30 µm	ca. 40%*	400°C 500°C 600°C	THERMODUR 600 STAN	
•								Air drying	20 µm	ca. 60%	650°C	THERMODUR Hot-Plate Coating	
•								Air drying	30 µm	ca. 65%	650°C	THERMODUR Marking Paint	
	•	•						Air drying	15–30 µm	ca. 50%*	350°C without gloss loss	Thermodur 600 ASS HSR	
	•	•						Air drying	15–30 µm	ca. 45%*	400°C 500°C 600°C	Thermodur 600 ASS	
	•	•						Air drying	15–30 µm	ca. 60%*	400°C 500°C 600°C	Thermodur 600 ASS HS	
	•	•						Air drying	15–30 µm	ca. 50% *	400°C 500°C 600°C	Thermodur 600 HPNS 1K	
		•						Air drying	70–120 µm	ca. 75%	400°C 500°C 600°C	Thermodur 600 ASS BBQ	
	•	•						Air drying	15–30 µm	ca. 60%	400°C 500°C 600°C	Thermodur 600 PURE	
	•	•						Air drying	15–30 µm	ca. 40%*	400°C 500°C 600°C	Thermodur 600 Aqua	
				•				Air drying	70–90 µm	ca. 67%	400°C 500°C 600°C	Thermodur 600 ASS EX	
				•				20 min/ 150°C	20–30 µm	ca. 50% *	550°C	Chemolit Top Coat	
				•				Air drying	15–30 µm	ca.65%	300°C	Zinkalit	
					•			Air drying	8–15 µm	ca. 12%	980°C	Thermodur Scale X Thermodur Scale K 12124	
					•			Air drying	up to 100 µm	ca. 80%	500°C	Remosil OM 500	
					•			Air drying	1–2 x 25 µm	ca. 60%	600°C	Remosil S Alu	
						•		Air drying	90–140 µm	ca. 70%*	400°C 500°C 600°C	Remosil Titanium CUI	

*Dependent on the colour shade

THE COLOUR
WORLD OF
THERMODUR
OPENS UP
A GREAT
VARIETY OF
PRODUCT
INNOVATIONS.



AWARDS

KANSAI HELIOS Austria has been focusing for many years on quality and sustainability. The company has received numerous awards.

- 2022 "ÖGUT" Environmental Award Austria
- 2012 European Responsible Care Award
- Since 2011 OHSAS 18001:2007
- 2011 Nomination for Daphne Environmental Award – „Excellent Project“
- 2011 Nomination for Daphne Environmental Award of the City of Vienna
- 2011 Future Award of the City of Vienna – Category „Products and Application“
- 2006 Waste Manager of the Year
- 2000, 1999 Environmental Award of The Austrian Economy
- Since 1998 ISO 14001:2004
- Since 1998 EMAS
- 1997, 1996 Mercur Award
- Since 1995 ISO 9001:2008
- 1995 Ecological Manager of the Month
- Since 1994 Responsible Care Certificate
- 1994 Environmental Award of The Viennese Economy
- 1992 Environmental Oscar





Visit our YouTube channel!
KANSAI HELIOS Industrial Coating Solutions



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