

SAFE STEPS



KIMPUR

Safety Shoe Systems

KiMfoot SAFETY SHOE SYSTEMS

Safety shoes are the designed to remove possible damages to be caused on your feet on the working environment.

Today, when we investigate occupational accidents, we see that many injuries are caused by wearing improper safety shoes or not wearing any safety shoes at all.

Comfortable and durable safety shoes are preferred with the features of lightness, flexibility, absorption, corrosion-resistance and resistance to slipping in especially in heavy industry (mining, metallurgy, mechanical engineering, energy, defense industry and chemical industry) and light industry production sites.

Polyurethane is the most reasonable material to produce safety shoes since it provides all these features.



Kimpur has developed **KIMfoot** Safety Shoe Systems which provides both safe and comfortable steps in order to provide long-lasting usage experience. Our systems which are in compliance with **EN ISO 20345: 2012** and **EN 61340-5-1** are used in single and double density safety shoes production. Double density consists two layers, outsole and midsole. While PU midsole provides high comfort for feet with its soft and breathable structure, PU outsole enables shoes to provide high resistance to slipping and corrosion. Outsole can be affixed with PU and TPU.

KIMfoot Safety Shoe Systems can be applied with injection and open casting machines.



KIMfoot Safety Shoe Systems have high advantages.



Comfortable and Light Steps



In Compliance with the ISO 20345: 2012 Standard



High Flex Resistance



High Resistance to Slip (SRA/SRB/SRC)

SRA: Resistance to slip on ceramic tiles
SRB: Resistance to slip on steel plate and glycerins
SRC (SRA+SRB): Resistance to slip on ceramic, steel plate and glycerins



High Resistance to Corrosion



Electrostatic Discharge (ESD)



Protection Against Electric Shock



Energy Emmision On Toe



Antimicrobial



Oil and Fuel Resistance



Anti-static Resistance



Hydrolyze Resistance



Informative Note: According to EN ISO 20345: 2012, If the electric contact resistance measured in a shoe is between 100 km (105 ohm) and 1 GQ (109 ohm), it is considered as anti-static. For ESD shoes, the bottom limit of electric resistance is 100 km (105 ohm) while the upper limit is 35 MQ (3,5 X 10⁷ ohm) according to EN 61340-5-1. It means that shoes with ESD feature is anti-static at the same time.

KIMfoot® SAFETY SHOE SYSTEMS			MOLDED DENSITY (kg/m³)	HARDNESS (SHA)
KIMfoot AA 00500	Crosskim AA 40400	Izokim AA 011 Izokim AA 060	500-550	58±5
KIMfoot AA 00500	Crosskim AA 40200	Izokim AA 011 Izokim AA 060	500-550	58±5
KIMfoot AA 00500	Crosskim AA 36200	Izokim AA 011 Izokim AA 060	380-420	40±5
KIMfoot AA 00500	Crosskim AA 40500	Izokim AA 011 Izokim AA 060	380-420	40±5
KIMfoot AA 00500	Crosskim AA 40600	Izokim AA 034	350-400	40±5
KIMfoot AA 00500	Crosskim AA 40700	Izokim AA 034	350-400	40±5
KIMfoot AA 00500	Crosskim AA 44100	Izokim AA 034	350-400	40±5
KIMfoot AA 00500	Crosskim AA 41000	Izokim AA 011 Izokim AA 060	340-360	40±5
KIMfoot AA 00500	Crosskim AA 43500	Izokim AA 011 Izokim AA 060	340-360	40±5
KIMfoot AA 00500	Crosskim AA 39600	Izokim AA 011 Izokim AA 060	900-1000	55±5
KIMfoot AA 00500	Crosskim AA 40300	Izokim AA 011 Izokim AA 060	900-1000	55±5
KIMfoot AA 00500	Crosskim AA 51000	Izokim AA 011 Izokim AA 060	900-1000	55±5
KIMfoot AA 00500	Crosskim AA 53500	Izokim AA 011 Izokim AA 060	900-1000	55±5

The system polyol with the hydrolysis resistance is **KIMfoot AA00900**.



LOW TEMPERATURE RESISTANT **KIMfoot** PREPOLYMER

Kimpur has developed **Izokim AA 060** prepolymer for safety footwear systems, which is frost resistant at low temperatures. In addition to its high frost resistance, the product has a short melting time, allowing the energy used for melting during the process to be minimized.

Usage Areas

Single-doubledensity outsole and midsole safety footwear systems

ADVANTAGES

- High frost resistance at low temperatures

According to the test results;

TEMPERATURE	RESULTS	METHOD
-10°C	No freezing for 10 days.	KIMPUR INTERNAL METHOD
-5°C	No freezing for 20 days.	KIMPUR INTERNAL METHOD
0°C	No freezing for 90 days.	KIMPUR INTERNAL METHOD
>0°C	No freezing is observed and only changes in viscosity values were observed	KIMPUR INTERNAL METHOD

- Save energy and time with short melting time

According to the test results;

TEMPERATURE	RESULTS	METHOD
-5°C	Prepolymer kept for 20 days has a melting temperature of 50 °C and melting time of 10 hours	KIMPUR INTERNAL METHOD

PREPOLYMER	VISCOSITY (mPa.s (40°C))
Izokim AA 060	400 - 500

Recommended Preuse Temperature and Time	Unit	A	B	Time
Recommended Melting Oven Temperature and Time	°C	70	60	8 - 16 Hours
Recommended Working Temperature and Time	°C	50	40	4 - 6 Hours

*Store in a covered area protected from rain.

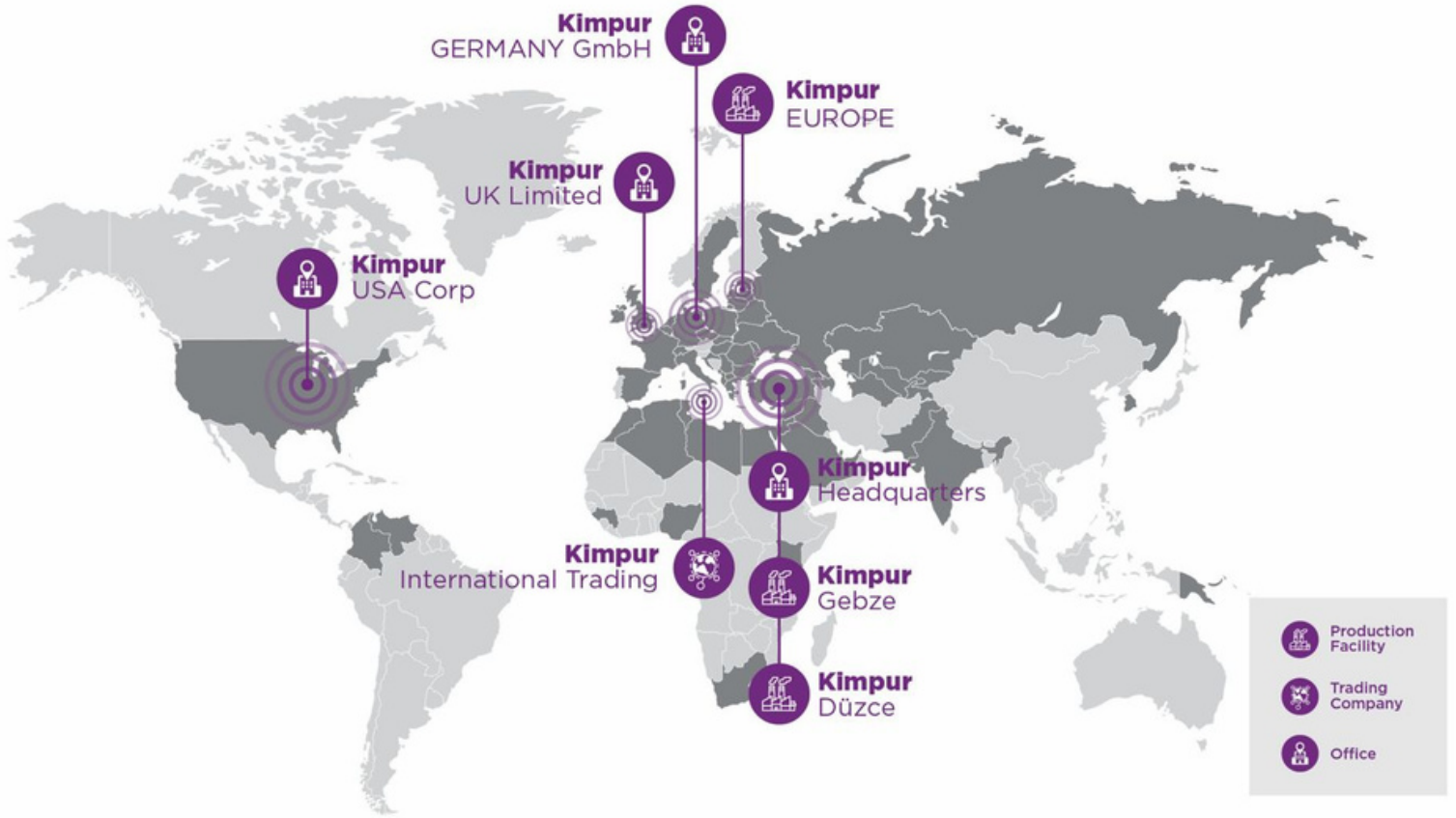
For the selection of the most suitable systems for your products and processes, more detailed information about the products and TDS, MSDS documents, please contact our sales office.



TÜRKİYE'S LARGEST POLYURETHANE SYSTEM HOUSE

Kimpur is the polyurethane system house with the largest capacity in the region, with a production capacity exceeding 200,000 tons. It leads the sector by exporting to more than 60 countries in 5 continents. Polyurethane systems produced; It is used in different sectors such as shoes, automotive, furniture, heating and cooling, insulation-construction and defense industry.

GLOBAL ACTIVITIES



TÜRKİYE'S TOP
500
INDUSTRIAL ENTERPRISES

1000
TOP 1000 EXPORTERS OF TÜRKİYE
(TİM: TURKISH EXPORTERS ASSEMBLY)

TÜRKİYE'S LARGEST
500
FORTUNE
COMPANIES

İKMİB Istanbul
Chemicals And Chemical Products
Exporters' Association
Stars of Exports

Turkishtime
R&D 250
TURKISH COMPANIES WITH THE HIGHEST R&D EXPENSES



United Nations
Global Compact



Responsible Care®
OUR COMMITMENT TO SUSTAINABILITY

Kimpur Corporate Promotional Film
Click to watch





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LEGAL INFORMATION

At Kimpur, we strive to provide you with the highest quality polyurethane systems, backed by our expertise and dedication to innovation. The information provided in this brochure is a reflection of our expertise and knowledge. However, we highly recommend for users to conduct their own thorough assessments and tests to ensure the suitability and optimal performance of our products for their intended applications. While we strive to provide accurate and reliable information, Kimpur does not assume any liability or offer any warranty, whether expressed or implied, regarding the properties, performance, or fitness for a particular purpose of our products. Descriptions, specifications, and other details provided herein are subject to change without prior notice and should not be considered as binding contractual guarantees. As the recipient of our products, our customers assume full responsibility for compliance with all applicable laws, regulations, and intellectual property rights. We highly recommend obtaining comprehensive information on product toxicity, adhering to proper handling procedures, and ensuring compliance with safety and environmental standards. At Kimpur, we value our partnership with you and strive to provide exceptional support. However, it is important to emphasize that the application, use, and processing of our products are ultimately the sole responsibility of the user. Please note that the safety data provided in this brochure is for informational purposes only and does not constitute a legally binding Material Safety Data Sheet (MSDS). To obtain the relevant MSDS, kindly request it from your supplier or contact us directly at uncommonsolutions@kimpur.com. Our team is ready to assist you with any inquiries or specific safety information you may need.

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