

SAFE AND SUSTAINABLE STRUCTURES



kim RIGID®
RIGID FOAM SYSTEMS


kimpur
KIMTEKS POLYURETHANE

Sandwich Panel Systems

KIMrigid

Sandwich Panel Systems

With ever increasing energy consumption in the world, current energy sources should be used in the most effective and productive ways to meet such demand. Energy efficiency has become an indispensable part of sustainable development since it directly affects our future and the environment. Energy savings also means long term cost saving for the consumer.



In studies on energy efficiency, the share of buildings in energy consumption have been determined as very significant and sandwich panels that provide high thermal insulation have started widespread use creating critical impact on energy efficiency.

Sandwich panels used in the construction sector provide buildings with thermal insulation as well as protection against external factors and supply a solid, firm barrier. They are composed of composite, high resistance, low density foam filling material. While the inner and outer metal sheets provide protection from external factors and prevent corrosion, the foam filling material ensures thermal insulation.

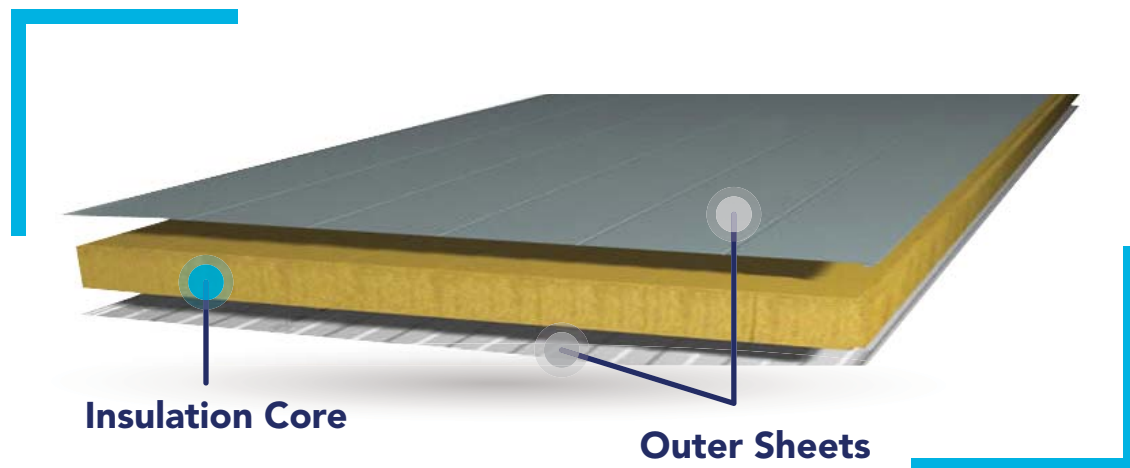
The core material used in the sandwich panel has significant importance regarding energy saving with thermal insulation. Polyurethane foam provides high insulation performance for the buildings with its low conductivity coefficient. Furthermore, it provides the opportunity to achieve more living space in the buildings through allowing the manufacture of thinner panels. Due to these superior features, polyurethane has become the ideal and indispensable filling material used in sandwich panel manufacture.

Kimpur developed **KIMrigid** Sandwich Panel Systems for the production of polyurethane foam that ensures safe and sustainable structures with very high fire resistance and excellent thermal insulation properties.

Our systems are divided into two groups as **continue (PIR and PUR)** and **discontinue sandwich panel systems**. Continue systems can be composed of 2, 4 or 5-components depending on the production line; while discontinue systems offer solutions with different reaction times depending on the machine flow rate and demolding time. The systems are formulated in different fire resistance levels according to requirements.

AREAS OF USAGE

- Pitched Roofs
- Facades
- Cold Storage Room Panels
- Flat Roofs
- Insulation Boards
- Refrigerated Containers



ADVANTAGES

- High fire resistance and dimensional stability
- Superior mechanical and thermal features
- Excellent insulation with low thermal conductivity coefficient ($\lambda:21\text{mW/mK}$)
- High productivity with excellent curing feature
- Minimum scrap with excellent processability
- Good adhesion on appropriate process conditions
- Extending the life of the building with its light feature
- Use of 100% pure raw materials
- Systems designed for different flammability classes (PIR, B2, B3)

KIMrigid Continue Sandwich Panel Systems

MATERIAL CODE	DEFINITION	APPLIED DENSITY (kg / m ³)	DOUBLE BAND TEMPERATURE (°C)	REACTION TO FIRE CLASS (DIN 4102)	PRIMER APPLICATION
KIMrigid PIR 205	<ul style="list-style-type: none"> - It is a 5-component PIR continue system. - High Index PIR System (> 300 index) - It has a specially developed trimerization catalyst for high PIR molecule formation. - Primer application is mandatory to achieve the desired adhesion. 	42	60-65	B2	Mandatory
KIMrigid RC 060	<ul style="list-style-type: none"> - It provides homogeneous foam distribution and minimum voids by high pentane solubility. - Formulated by Easy-PIR Technology 	40	50-55	B2	Not mandatory
KIMrigid RC 060B	<ul style="list-style-type: none"> - It is a 5-component continue system for sandwich panel manufacture. - It has been specially developed for high mechanical properties. - It offers fast production thanks to its excellent curing feature. 	40	40-45	B3	Not mandatory



KIMrigid Discontinue Sandwich Panel Systems

KIMrigid + Izokim RD 001	MIXING RATIO (Polymix / Iso)	APPLIED DENSITY (kg / m ³)	MOULD TEMPERATURE (°C)	REACTION TO FIRE (DIN 4102)
KIMrigid RD 068	140	42	40-45	B3
KIMrigid RD 075	120	42	35-40	B3
KIMrigid RD 077	140	42	35-40	B2
KIMrigid RD 078	160	44	35-40	B1

You can contact our sales office for further detailed information about the products, TDS and MSDS documents.

THE POLYURETHANE SYSTEM HOUSE OF TURKEY

SINCE

1983

Turkey's Top

500 ISO

Industrial Enterprises

Turkey's Largest

500 FORTUNE

Companies

1000 TIM TURKISH EXPORTERS ASSEMBLY
2019 TOP 1000 EXPORTERS OF TURKEY

PRODUCTION CAPACITY

110.000
TON



Kimpur Means Mutual Trust and Cooperation



Kimpur Means Quality



Kimpur Means Strong Communication Networks with Its All Stakeholders



Kimpur Means Strong Communication Networks with Its All Stakeholders



Kimpur is an Innovator and Solution Provider



Kimpur Means Experience



Kimpur is Sensible to The Environment



Kimpur is a Leading and Technology-Oriented Company





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