AssanChem

Product Catalogue

Kibar

ABOUT US

AssanChem, operating under the Kibar Holding since 2019, uses environmentally friendly methods and technologies in all production processes. At the same time, the company, which is taking firm steps towards completing end-to-end digitalization processes in all management processes, adopts a sustainability approach that covers employees, suppliers, customers and all stakeholders.

AssanChem product groups consist of various products serving variety of industries such as rigid systems, flexible systems and polyester polyols. Having a wide range of products in different polyurethane application areas, AssanChem, as a domestic polyurethane system manufacturer, produces innovative products with technology and R&D investments and offers customized solutions to its customers in Turkey and around the world.

AssanChem

AssanChem
Polyurethane Systems

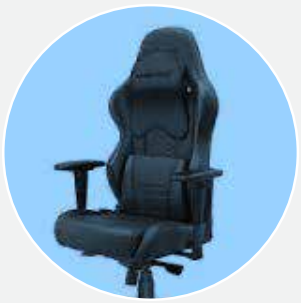
RIGID Systems
- Continuous
- Discontinuous
- Spray Applications



CASE Systems
- Polyurea
- 1C & 2C Adhesives
- Cast Elastomers



FLEX Systems
- Molded Foam Applications


PES Systems
- Aromatic Polyester Polyol
- Aliphatic Polyester Polyol



AssanChem

AssanChem Polyurethane Systems

RIGID SYSTEMS

Continuous Sandwich Panel Systems

The form of sandwich panels produced by continuous lamination of sandwich panels, which are widely used in commercial and industrial building applications with their high mechanical and fire resistance properties, are called continuous sandwich panels.

Continuous sandwich panels, which are frequently used in the construction industry with their superior performance features, especially their insulation properties, are widely used in roof and facade panels, insulation boards and prefabricated houses.

AssanChem continuous sandwich panel systems have developed high mechanical strength and fire resistance solutions in building applications. The solutions are offered in a wide range of classes such as filler type, fire class, foam density, production line features.

Applications

- Flat and Pitched Roofs
- Facade Panels
- Insulation Boards
- Cold Store Panels
- Prefabricated Houses

Advantages

- Excellent Thermal Features
- High Mechanical Features
- High Dimensional Stability
- Superior Adhesion
- High Fire Resistance
- Excellent Curing Features
- Lightness
- Adjustable Foam Density

AssanChem

AssanChem Polyurethane Systems

RIGID SYSTEMS

Continuous Sandwich Panel Systems

AssanChem Rigid Systems

System	Application	Foam Density (kg/m³)
Eco PUR Panel System 1	5-component, B3 fire class. High mechanical properties at low foam density. Provides fast curing.	**28-32**
Eco PUR Panel System 2	5-component, B3 fire class. High mechanical properties. Provides fast curing.	**32-36**
Eco PUR Panel System 3	4-component, B3 fire class. High mechanical properties. Provides fast curing.	**32-36**
Eco PUR Panel System 3	2-component, B3 fire class. High mechanical properties. Provides fast curing.	**32-36**
High Performance PUR Panel System-1	5-component, B2 fire class. Provides good mechanical strength and fire resistance. It has superior adhesion feature.	**38-40**
High Performance PUR Panel System-2	4-component, B2 fire class. Provides good mechanical strength and fire resistance. It has superior adhesion feature.	**38-40**
Polyisocyanurate (PIR) Panel System-1	5-component. Excellent fire properties. Provides high mechanical strength. Pre adhesive.	**39-41**
Polyisocyanurate (PIR) Panel System-2	4-component. Excellent fire properties. Provides high mechanical strength. Pre adhesive.	**39-41**
Polyisocyanurate (PIR) Panel System-3	Bio-based system. Provides high mechanical strength.	**39-41**
High Performance Polyisocyanurate (PIR) Panel System-1	5-component. Excellent fire properties. Provides high mechanical and thermal strength.	**39-41**
High Performance Polyisocyanurate (PIR) Panel System-2	5-component. Excellent fire properties. Provides high mechanical and thermal strength. Compatible with 4th Generation Blowing Agent.	**39-41**

*Used together with distribution pipe suitable for UST type production.

Type	Type1	Type2	Type3	Type4	Type5
Hole Diameter	3 mm	2.5 mm	2 mm	1.8 mm	1.6 mm
Width	1,000 mm	1,000 mm	1,000 mm	1,000 mm	1,000 mm

AssanChem

AssanChem Polyurethane Systems

RIGID SYSTEMS

Discontinuous Sandwich Panel Systems

The form of panels used in insulation applications with superior performance properties for storage and transportation purposes is called discontinuous panels.

Discontinuous panels are used in freezers, cold room panels, refrigerated cases and door applications, especially for food transportation and distribution due to their high mechanical strength and insulation properties.

Two-component insulation materials with various product thicknesses, filling density and fire class can be produced with AssanChem discontinuous panel systems.

Applications

- Cold Store Panels
- Refrigerated Containers
- Garage Door Panels
- Block Casting Panel Systems

Advantages

- Excellent Thermal Insulation
- High Mechanical and Thermal Properties
- High Fire Resistance
- Easy Processability
- Superior Adhesion and Compatibility
- High Dimensional Stability

	System	Application	Foam Density (kg/m³)
AssanChem Discontinuous Systems	**PUR System 1**	Mixing ratio: 100 / 120 Fire class: B3	**42**
	High Performance PUR System 1	Mixing ratio: 100 / 140 Fire class: B2, End-use B1	**42**
	High Performance PUR System 2	Mixing ratio: 100 / 140 Fire class: B2, End-use B1 Compatible with 4th Generation Blowing Agent Excellent thermal conductivity	**42**
	High Performance PIR System 1	Mixing ratio: 100 / 160 Excellent fire properties	**42**

AssanChem

AssanChem Polyurethane Systems
RIGID SYSTEMS

Spray Applications

Spray polyurethane foam insulation, which adheres well to the applied area and provides an uninterrupted seal, is especially preferred for building applications. Spray polyurethane foams, which have two different forms, open-cell and closed-cell, can be easily applied to inclined surfaces, ventilation holes and uneven areas in roof applications.

AssanChem continues to develop sustainable solutions to increase insulation and comfort in building applications with spray polyurethane systems.

Applications

- Roof Insulation
- Internal Wall Cavities
- Attics
- Facade Insulation
- Storage Areas

Advantages

- Excellent Thermal Insulation
- Low Air Permeability
- Low Moisture Permeability
- High Acoustic Insulation Feature
- High Mechanical Strength
- Excellent Adhesion
- Quick and Easy Application

System	Application	Foam Density (kg/m³)
Spray System 1	Closed cell high density, excellent thermal conductivity. Does not contain HFC, HCFC or flammable gases.	60-65
Spray System 2	Closed cell. Excellent thermal conductivity	30-40
Spray System 3	Open cell with fine cell structure Excellent dimensional stability Does not contain HFC, HCFC or flammable gases.	30-35
Spray System 4	Open cell with fine cell structure Excellent dimensional stability Does not contain HFC, HCFC or flammable gases.	40-45

AssanChem

AssanChem Polyurethane Systems

CASE SYSTEMS

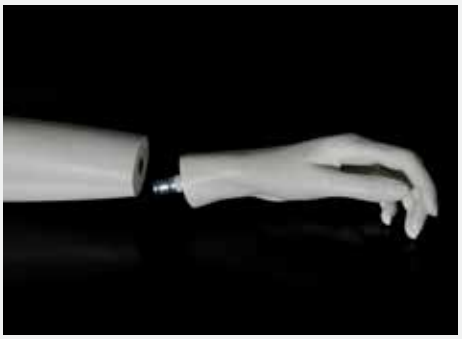
High Performance Polyurea Coatings & RIM Systems

Coating systems are materials placed on the surface to provide resistance against corrosion and abrasion and to improve surface properties. Polyurea coating materials have high strength and hardness and are especially used as waterproofing materials.

AssanChem RIM systems offer different hardness values to give a wide range of mechanical and thermal properties with excellent surface properties.

Applications

- Industrial Surfaces
- Water Tanks
- Swimming Pools
- Roads and Bridges
- Terraces and Balconies
- Rotation Injection Molding



Advantages

- Excellent Waterproof Properties
- Fast Curing
- High Moisture Resistance
- Rapid Application
- Perfect Sealing of Surfaces
- Abrasion Resistance

AssanChem RIM Polyurethane Systems

System	Application	Pure/Hybrid
Polyurea System 1	Hardness: Shore A: 85-95 Crack filling Excellent water repelliance	Hybrid
Polyurea System 2	Hardness: Shore A: 80-85 Various colour options Excellent flexibility.	Hybrid
Polyurea System 3	Hardness: Shore A: 75-80 Flexible spray coating materials Various colour options	Hybrid
Polyurea System 4	Hardness: Shore A: 85-95 Excellent thermal resistance	Pure
RIM System 1	Hardness: Shore D: 83 Excellent thermal and surface properties	–
RIM System 2	Hardness: Shore D: 79 Excellent surface properties	–

*Polyurea systems can be prepared at desired hardness levels. Can be sent together with topcoat and primer.

AssanChem

AssanChem Polyurethane Systems

CASE SYSTEMS

Adhesives

Adhesives, which are an important factor for panel applications, are used to strengthen the bond between the inner filling material and the outer coating surface.

AssanChem panel adhesive systems have developed performance features that provide excellent adhesion for PIR and rockwool filled panels that can be used in various application methods depending on the production processes.

AssanChem has developed single and double component adhesives depending on the areas of use. AssanChem binder systems have been developed with excellent adhesion strength for use in a wide range of applications.

Advantages

- Excellent Adhesion to Surfaces
- Ease of Application
- High Mechanical Strength
- Hot and Cold Curing

AssanChem Adhesive Systems

System	Application	Properties
Adhesive 1	2-component PIR adhesive Excellent adhesion Suitable for high production speeds.	Density: 850-950 kg/m³
Adhesive 2	2-component PIR adhesive Excellent adhesion Suitable for slow production speeds.	Density: 850-950 kg/m³
Adhesive 3	2C-mineral wool and EPS adhesive Excellent adhesion Suitable for high production speeds	Density: 62-68 kg/m³
Adhesive 4	2C-mineral wool and EPS adhesive Excellent adhesion Suitable for slow production speeds.	Density: 65-75 kg/m³
Adhesive 5	2C-filled mineral wool adhesive Lower viscosity, better mixing quality Low calorific value	Density: 70-80 kg/m³
Adhesive 6	1-component Suitable for wood lamination	%NCO: 18±0.5
Adhesive 7	1-component flexible foam binder Suitable for cold press	%NCO: 15±0.5
Adhesive 8	1-component flexible foam binder Suitable for hot press	%NCO: 12±0.5
Adhesive 9	1-component rubber binder Excellent adhesion	%NCO: 10±0.5

AssanChem

AssanChem Polyurethane Systems
FLEX SYSTEMS

Molded Foam

Molded foam systems are used in the automotive and furniture industries due to the superior flexibility provided by their open cell structure.

AssanChem designs molded foam for the production of ergonomic products with high flexibility and comfort properties. Various products have been developed for the furniture and automotive industry.

Applications

- Seating for Furniture
- Seating for Automotive
- Office Chairs
- Motor Vehicle Seats and Head Restraints

Advantages

- High Flexibility and Comfort
- Long-Term Use
- Excellent Mechanical Properties
- Low Free Density
- High Flowability
- Fast Curing
- Smooth Skin and Regular Pore Structure

AssanChem Flexible Systems

System	Application	Density (kg/m³)
Flexible Foam 1	Aluminum and polyester mold Low density production Suitable for the furniture industry	43-45
Flexible Foam 2	Aluminum and polyester mold Suitable for hard parts production Suitable for the furniture industry	46-48
Flexible Foam 3	Aluminum and polyester mold Low density production Suitable for the automotive industry	43-45
Flexible Foam 4	Aluminum and polyester mold High density production Suitable for the automotive industry	46-48

AssanChem

AssanChem Polyurethane Systems

PES SYSTEMS

Polyester Polyols

AssanChem polyester polyols with aromatic and aliphatic structures have been developed for use in various polyurethane application areas. It is produced by condensation reaction of dicarboxylic acids and glycols.

AssanChem polyester polyols can be produced in line with the required properties and are synthesized with high purity monomers. AssanChem polyester polyols, which have a wide range of products for various applications, are produced in high-tech reactors and have reliable product quality.

Advantages

- Rigid Polyurethane Foam
- Polyurethane Adhesives
- Cast Elastomer and TPU

AssanChem Polyester Polyols

System	Application	Viscosity (mPa.s, 25 °C)
Aromatic PES 1	Suitable for PIR production High aromatic content Excellent fire properties Suitable for various blowing agents	6,000-8,000
Aromatic PES 2	Suitable for PIR and PUR production Excellent fire properties Suitable for various blowing agents Low viscosity	3,000-4,000
Aromatic PES 3	Suitable for PIR and PUR production Excellent pentane emulsification Low viscosity	4,000-5,000
Aromatic PES 4	Suitable for PIR and PUR continous and discontinuous production Excellent pentane solubility Low viscosity	4,000-5,000
Aromatic PES 5	Suitable for PIR and PUR production Contains high amount recycle PET	1,000-2000
Aliphatic PES 1	Suitable for TPU production Maintains liquidity at room temperature	2,000-3,000
Aliphatic PES 2	Suitable for 1C adhesive formulations Provides excellent adhesion	2,000-3,000

AssanChem

AssanChem

QR CODE FOR TECHNICAL DATA SHEETS

Contact us for more information
https://www.assanafg.com/en/products
info@assanchem.com
+90 850 202 32 20

ISTANBUL FACILITY
Yayla Mah. D-100 Karayolu Üzeri Rüya Sok. No: 2 34940
Tuzla/İstanbul/TÜRKİYE

BALIKESIR FACILITY
Balıkesir Organize Sanayi Bölgesi 16. Cad. No: 1
Balıkesir/TÜRKİYE

Kibar