Technical Data Sheet

Prepolymer ISO 3815

Description

Prepolymer ISO 3815, One-Component Polyurethane (PU) MDI-Based Binder specifically formulated for bonding **rubber crumb**, including SBR, EPDM, and other rubber granules. Ideal for applications such as sports flooring, playground surfaces, and safety mats, this binder delivers excellent adhesion, superior flexibility, and long-lasting durability.

Typical properties

Product Data:

Parameter	Unit	Value
Color	-	Light Brown
Solid Content	%	100
Viscosity (at 25°C)	mPa.s	5000-7000
Density	g/cm^3	1.10
Demolding Time (at 170°C)	sec	420
Hardness (After Full Cure)	Shore A	60-80
Storage and transport temperature	°C	-20 °C until +30 °C

Supply and storage

The product can be stored for up to 6 months under proper conditions. Short-term temperature fluctuations will not harm the material. Keep the product protected from moisture and water exposure at all times.

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Technical Data Sheet

Prepolymer ISO 651

Description

Prepolymer ISO 651 is a moisture-curing, solvent-free, very low-viscosity, one-component prepolymer based on MDI, offering excellent processability. It is specifically formulated as a **rebound foam adhesive** for bonding flexible foam scraps, enabling the production of foam composites with high hardness and superior compression strength.

Typical properties

Parameter	Unit	Value	Test Methods
Appearance	-	clear brownish	DIN 52002
Viscosity (at 25°C)	mPa.s	5500-7000	ASTM D 4889
Density	g/cm^3	1.16-1.19	ISO 2811 Part 1
Flash Point	°C	>200	DIN 51785
Storage and transport temperature	°C	-20 °C until +50 °C	Internal Method
Non-Volatiles	%	100	ASTM D 2369

Supply and storage

The product can be stored for up to 6 months under proper conditions. Short-term temperature fluctuations will not harm the material. Keep the product protected from moisture and water exposure at all times.

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Technical Data Sheet

SIP-Prime 209

Description

SIP-Prime 209 is a one-component, moisture-curing polyurethane primer designed to improve adhesion between PIR/PUR foam systems and metal substrates. The primer creates a thin, reactive surface layer that increases surface energy, promotes chemical bonding, and enhances mechanical anchorage for superior adhesion performance. Its typical applications are **bonding PIR/PUR foams to: Galvanized steel, Galvalume / Aluzinc and Pre-painted steel.**

Typical properties

Parameter	Unit	Value	Test Methods
Appearance	-	Yellow to brownish Clear liquid	DIN 52002
Viscosity (at 25°C)	mPa.s	2500 ± 500	ASTM D 4889
Density	g/cm^3	1.17 ± 0.03	ISO 2811 Part 1
Tack-Free Time	min	15-30	Internal Method
Full Cure Time	hr	8–24	Internal Method
Application Temperature	°C	10–35	Internal Method
Recommended Ambient Humidity	% RH	40–70	Internal Method
Service Temperature (after cure)	°C	–40°C to +110°C	Internal Method
Non-Volatiles	%	100	ASTM D 2369

Supply and storage

The product can be stored for up to 6 months under proper conditions. Short-term temperature fluctuations will not harm the material. Keep the product protected from moisture and water exposure at all times.

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Technical Data Sheet

R 5060

Description

R 5060 is a two-component polyurethane foaming adhesive, a reactive adhesive consisting of**:**

- Component A – Polyol blend (polyether polyols, catalysts, surfactants, blowing agents, additives)
- Component B – MDI-based isocyanate prepolymer.

When mixed, the adhesive foams slightly and chemically **bonds both the polystyrene foam (EPS/XPS) and the metal surface**.

This system is specially engineered so it does not chemically attack EPS/XPS, which are sensitive to solvents.

Typical properties

Component A (Polyol Blend)

Parameter	Unit	Value	Test Methods
Appearance	-	Viscous liquid	DIN 52002
Viscosity (at 25°C)	mPa.s	1500–3000	ASTM D 4889
Density	g/cm^3	1.00–1.15	ISO 2811 Part 1

Component B (Isocyanate Prepolymer)

Parameter	Unit	Value	Test Methods
Appearance	-	Brown liquid	DIN 52002
Viscosity (at 25°C)	mPa.s	250-350	ASTM D 4889
Density	g/cm^3	1.19-1.24	ISO 2811 Part 1
NCO Content	%	29-30	ASTM D 2572

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Mixing Ratio

ISO/ POLY	by weight	100 : 100	-

Reaction Profile

Parameter	Unit	Value	Test Methods
Cream Time	second	45-60	Internal Method
Gel Time	second	80-90	Internal Method
Tack-Free Time	second	110–130	Internal Method
Full Cure	hour	1–24	Internal Method
Bondline Density	kg/m³	60–150	Internal Method

Supply and storage

The product can be stored for up to 6 months under proper conditions. Short-term temperature fluctuations will not harm the material. Keep the product protected from moisture and water exposure at all times.

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Technical Data Sheet

Elastocase 1355 D

Description

Elastocase 1355 D is a solvent-free, two-component polyurethane casting system ideal for **encapsulating and protecting electronic components and high-voltage devices.** It offers low viscosity and a long working life at ambient temperature, enabling easy vacuum casting. After curing, it provides excellent mechanical and electrical performance. This system is particularly suited for instrument transformers, electronic components, and power transmission and distribution applications.

Typical properties

Component A

Parameter	Value	Unit	Test Methods
Appearance	Liquid	-	-
Shelf Life (at 25°C)	6.0	months	-
Specific Gravity	1.24	-	AMTM0050
Viscosity (at 25°C)	30 - 50	mPa.s	AMTM0026

Component B

Parameter	Value	Unit	Test Methods
Appearance	Liquid	-	-
Shelf Life	6.0	months	-
Specific Gravity	1.64	-	AMTM0050
Viscosity (at 25°C)	25000 - 30000	mPa.s	AMTM0026

Reaction Profile

Parameter	Value	Unit	Test Methods
Mix Ratio	13:100	pbw	-
Viscosity	4000 - 5000	cP	-
Hardness	50 - 55	Shore D	-

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Supply and storage

It should be stored in a dry place, in the sealed original container, at temperatures between 2°C and 18°C .Under these storage conditions the shelf life is 6 months from the date of manufacture.

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