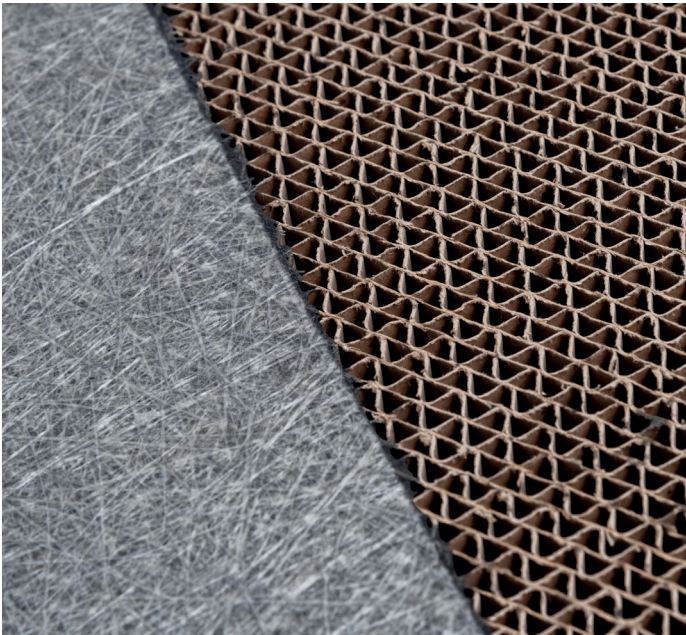


Polyurethanes

**RIMLINE<sup>®</sup> HC+**

**Product information**



#### PRODUCT DESCRIPTION

RIMLINE<sup>®</sup> HC+ resin is a PU-based two-component system with fast cycle time, specifically developed for use in the manufacture of semi-structural automotive components.

Applied as a spray to a fibreglass-reinforced material overlaying a paper honeycomb core, RIMLINE<sup>®</sup> HC+ resins cure to form a tough, robust and long-lasting surface which enable lightweight components contributing to total vehicle weight reduction. A fit-to-purpose technology, RIMLINE<sup>®</sup> HC+ system can be tailored to meet versatile project requirements exactly.

RIMLINE<sup>®</sup> HC+ resin system is fully formulated and includes the mix of a polyol blend, catalyst package and internal mould release used in combination with SUPRASEC<sup>®</sup> isocyanate.

#### KEY FEATURES

- Versatile and durable, enabling engineering design freedom
- Provides durability of the final components for easy integration of fixings and fasteners
- Formulated to help meet customer needs for VOC and odour specifications
- Supplied in container sizes of IBC or bulk trucks

#### BENEFITS

- A lightweight solution design allowing use of flat or shaped core materials
- Increased productivity – a high number of releases possible without the requirement of frequent tool cleaning
- Non-drip resin system, ideal for use in both vertical and horizontal spray applications
- Long spray time of up to 120 seconds with good edge filling capability with a cure T range between 90°C and 130°C
- Excellent property balance for reliable parts performance
- Surface ready for carpet and textile bonding

#### TYPICAL APPLICATIONS

- Load floors
- Parcel shelves
- Sun roofs
- Seat backs
- Interior panels
- Spare wheel covers

## APPLICATION METHOD

PU spray-up with compression moulding using paper honeycomb as core material and glass fibre reinforcement surface layers.

## TYPICAL PROCESSING CONDITIONS USING A HIGH PRESSURE MACHINE\*

Processing	Value	Unit
RIMLINE® HC+	100	pbw
SUPRASEC®	220 - 260	pbw
Mould temperature	> 90	°C
Demould time	30 - 60	sec

\* RIMLINE® HC+ has to be mixed well prior to use. The chemicals should be adjusted to the correct temperature before use to ensure reactivity and viscosity are suitable for processing.

## TYPICAL REACTIVITY\*

Reactivity	Value	Unit
RIMLINE® HC+	100	pbw
SUPRASEC®	240	pbw
Component temperature	20	°C
Cream time	80	sec
End of rise	180	sec
Free rise density	150	kg/m <sup>3</sup>

\* A foam produced in a small scale laboratory cup test will have the reactivity as listed in the table if mentioned mixing ratio is used.

## STRIVING FOR SUSTAINABILITY



- Design flexibility
- Fast production cycles
- Easy release



- Lightweight
- Durable, easy fixing
- Low scrap rate



- Lightweight for lower fuel consumption
- Process energy efficiency

## CONTACT US

A global provider of innovative solutions and leader in MDI based polyurethanes, Huntsman is proud of their long and successful track record of delivering PU resins for automotive applications including acoustics, seating and composite materials. Trusted and renowned for consistent and reliable product supply, Huntsman are dedicated to providing our customers with the finest quality of products and services available. Our technical experts are ready to work in partnership with you on your next project and help solve complex design issues with differentiated, bespoke, cost effective solutions.

We invite you to contact us for further information or immediate assistance at [polyurethanes\\_eu@huntsman.com](mailto:polyurethanes_eu@huntsman.com) or through [www.huntsman.com/RIMLINEHC](http://www.huntsman.com/RIMLINEHC)

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