



New RUF R Spyder Prototype Roadster P2/2

Case History

New RUF Studiotorino R Spyder Prototype Roadster P2/2 car developed using Huntsman Advanced Materials modelling boards

The stunning new RUF R Spyder prototype, the P2/2, is the latest automotive design vision from Alfredo Stola, and the first creation from his new Studiotorino project.

This first prototype for a planned production series of just 49 cars, was developed using RenShape® BM 5185 styling and modelling boards from Huntsman Advanced Materials. Alfredo Stola has been at the forefront of the Italian automotive design industry for many years, originally through the Stola Group and now with Studiotorino.

For the R Spyder project, Studiotorino collaborated with the high performance car manufacturer, Alois Ruf of RUF Automobile GmbH, based in Pfaffenhausen, near Munich in Germany.

The elegant streamlined shape of this open-topped roadster highlights the superb quality of finish that can be achieved using Huntsman Advanced Materials styling and modelling boards even with a highly complex aerodynamic design. A flawless finish was also critical for the successful application of the unique painting system that Alfredo Stola has developed for his concept cars, which takes ten days to complete.

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“We have used Huntsman Advanced Materials RenShape® BM 5185 modelling boards for many previous projects,” said Alfredo Stola, “so we know it is ideally matched to our very demanding standards.

“RenShape® BM 5185 provides a toughness and durability easily comparable with traditional modelling materials such as clay or wood, but it is much more versatile – lightweight and easy to machine or hand finish to any design refinements, with very little waste.

“Because of this we knew it would be key to the successful development of our R Spyder prototype, the P2/2. It has helped us give shape and reality to what I call ‘a Fine Sports Car’ much more quickly and cost effectively than you can with traditional materials.”

- **Application:**
Epoxy boards used on fully functional prototype sports car
- **Special service conditions:**
Rapid production of fully functional prototype for road tests and public display
- **Advantages for customer:**
 - Compatible with highly complex aerodynamic design
 - Flawless, paintable finish
- **Advantages over the competition:**
 - As tough and durable as traditional materials but lightweight and easy to machine or hand finish
 - Rapid design refinements with minimal waste
 - Highly cost effective
- **Huntsman Advanced Materials used:**
RenShape® BM 5185 epoxy modeling and styling boards
- **Customer location:**
Torino, Italy

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Huntsman Advanced Materials

RenShape® BM 5185 is a medium density styling and modelling board with a low co-efficient of thermal expansion ($10^{-6} K^{-1}$) and a compressive strength and a flexural strength of 10-15 MPa. It has very good surface finish quality and good machinability.

The P2/2 is a fully functioning prototype and at its heart is the RUF 3.8 litre engine. This 24 valve, six cylinder engine This gives the P2/2 a top speed of 172mph (280 km/h) and an acceleration rate of 0-62 mph (100km/h) in just 4.7 seconds.

Alfredo Stola, creator of the RUF R Spyder prototype says:
“RenShape® BM 5185 modelling boards helped us give shape and reality to what I call ‘a Fine Sports Car’ much more quickly and cost effectively than you can with traditional materials.”

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