

# Paintshop Solutions

## How can 3M help you?

Contact 3M Automotive Division to see how we can help your business.

Our team of specialists are on hand to help solve your business issues and application requirements.

Interior

Exterior

Paintshop

Body in White

Powertrain

New Technology

### Introduction

As a global supplier into the automotive industry, 3M can support you in creating, processing and maintaining flawless surfaces, with a broad product line:

- Paint replacement films
- Paint protection films
- Paint finishing solutions
- Cleaning and environmental safety
- Paint preparation and paint repair

Profit from complete and custom solutions, from preparation to the finish.

Our team of specialists are on hand to help solve your business issues and application requirements.

Tel. 01344 857 867  
[www.3M-automotive.com](http://www.3M-automotive.com)

### Paint Protection and Replacement

● **Blackout Films/Paint Replacement Films** - we offer films in a wide variety of structures, gloss grades and thicknesses in order to consistently meet your design requirements. Blackout films have virtually zero influence on vehicle weight, can be recycled with the vehicle body and provide flexible and process friendly alternatives to paint and cladding.



3M films with MicroComply™ technology are simple to apply and enable short cycle times. They are able to fit into established production processes and can reduce process costs. With their high flexibility these films are perfectly suited for application on complex surfaces. We also offer innovative methods and application tooling for fast, simple and reliable application.

Primary application areas include A, B and C pillars, window frames, cockpits and metal or plastic coverings.

● **Paint Protection Film** - maintain the beauty and integrity of automotive finishes by protecting sensitive surfaces. They can be used in many areas for interior and exterior applications including rear wheel arches, bumpers and door edges. The almost invisible film protects against scratches, stone chip damage and weathering.

3M polyurethane films are not only characterised by outstanding resistance to stone chip damage but they can also be applied to complex 3-dimensional geometries.

MOF films made of Modified Olefin have been developed to protect and maintain painted surfaces where the vehicle is particularly subject to abrasion, scratching and corrosion. The material remains permanently transparent.



**3M Automotive**  
*Driven by Innovation. Worldwide*

**3M**

- **Scotchgard™ Paint Protection Film** - is used in Aftermarket applications for frontal applications such as the bumper, leading edge of the bonnet, wing mirrors, loading surfaces and other sensitive areas. This represents a real opportunity for the OEM and their Aftermarket accessories range as customers are increasingly calling for a more durable and transparent protective solution for their vehicle. This film could also be applied to fleet vehicles and commercial vehicles to reduce re-working prior to sale.

## Paint Repair

- **E-coat and Primer Sanding** - effective systems for damp or dry sanding whether used by hand or by machine. In the damp system, sanding residue is prevented from becoming airborne so that it can be wiped away. In the dry system vacuum extraction is used to remove the debris.



- **Clear Coat Repair** - even in the most modern Paintshop it is not possible to eliminate all clear coat defects. If not corrected the nibs on the vehicle surface will be detected

on delivery resulting in both costly warranty work and potential customer dissatisfaction. Using advanced abrasive technologies 3M has developed the Finesse-it™ system – a 2 step system that is robust and easy to use.

**Step 1** (sanding): Trizact™ abrasive is used to remove the nib without creating “mirror spot”. This unique, micro-replicated abrasive generates a uniformly fine finish time after time.



**Step 2** (polishing): using a Finesse-it™ foam pad and Finesse-it™ polish, the fine sanding scratches are quickly buffed out.

The remaining polish residue is wiped away using a Scotch-Brite™ High Performance Wipe – these long lasting microfibre wipes effectively remove the debris, just leaving the shine.



## Final Repair and Aftermarket Systems

- **PPS Paint Preparation System** - the unique system for clean mixing and processing of all paint materials, accelerates and simplifies paint repair. By reducing consumption of cleaning thinner by up to 90%, the PPS system can help reduce cleaning costs and save time. In this enclosed system only one container is required for mixing and painting.

- **Aftermarket Systems** - the Final Repair area in a car plant has similarities to an Aftermarket body shop. 3M is the technology leader in Aftermarket consumables so many developments in this area can be used to good advantage – for example producing a piano finish for custom requirements.

- **3M and Scotch™ Masking Tapes** - the broad range of paper and fine line tapes offer a masking solution to meet all automotive needs.

- **Protective Tapes** - it is important to protect vulnerable surfaces during assembly and 3M has a protective tape to suit most substrates and applications.

## Other 3M Solutions

- **Liquid filtration** - contaminants must be removed to help keep paint defects to a minimum. 3M provide a total systems approach covering filter elements and housings from CUNO, a 3M company, and technical expertise. Overall the CUNO filtration systems will help reduce operating costs and achieve consistent paint finish quality.

- **Occupational Safety Products** - occupational safety products for every process step.

## New Technology

- **High Gloss Film For Rubber** - this product with a heatbond adhesive is used in the lamination process during the extrusion of rubber (EPDM) components. The film is used to change the appearance of rubber parts used for vehicle exterior closures and finishing parts. Example applications include window surrounds, glass run channels, roof ditch moldings and cladding.



**3M Automotive**

*Driven by Innovation. Worldwide*

Tel. 01344 857 867  
www.3M-automotive.com