

# Paintshop Solutions and Manufacturing Consumables

## 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.

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### 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. The target is to make the repair quickly, keeping the area as small as possible, and removing a minimum of the protective paint layer.

● **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. Therefore these small defects must be removed quickly on line to give an invisible repair that is free of haze and holograms. 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. And as it sands, fresh new abrasive mineral is exposed resulting in outstanding disc life and value. The consistent finish achieved means that the polishing step is dependable and fast.



**Step 2** (polishing): using a Finesse-it™ foam pad and Finesse-it™ polish, the fine sanding scratches are quickly buffed out. The optimum polish and pad combination is chosen to ensure process repeatability, resulting in a repair that will blend with the surrounding area. The patented convolute design of the foam pad minimises polish throw-out and so reduces clean up.

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.



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## 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. The paint remains dependably clean during the entire painting process. The use of traditional mixing containers and filters is no longer necessary, so mixing and colour changes can be done faster.

Spraying is possible with the paint gun at any angle - even upside down. The PPS system is available in standard (0.7L and 1.0L), refillable and mini versions. Mini PPS has all the advantages of the standard system, but with a smaller (170ml) container designed to work with the mini guns typically used in final spot repair. It is also ideal for painting corners and edges in the passenger compartment.

- **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. The optimum tape can be chosen to match the temperature and holding power required for the application. Scotch high temperature masking tapes save time by providing clean removal even after repeat bake cycles.

- **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. For Phosphate and Electro coat the patented DuoFLO™ elements provide improved filtration efficiency and filter life. In the paint mix room the absolute rated Betapure™ bi-component cartridges will filter, base coat and clear coat paints. 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. These products ensure not only active and passive safety, but they also offer increased wearing comfort. Whether it is eye and ear protection solutions, multi-functional respiratory protection systems or Safety-Walk™ anti-slip surfacing and matting - 3M helps protect your employees

## Paint Protection and Replacement



- **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.



- **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.

## 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.



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