

Torian SpectraShield PPF – Dry Apply Application Guide

Torian SpectraShield is a next-generation, dry-apply coloured Paint Protection Film (PPF) designed for advanced automotive applications. Engineered with cutting-edge adhesives and ultra-durable polyurethane film technology, it delivers a flawless paint-like finish, long-term protection, and precision installation without the use of water or slip solutions. To achieve optimal results, please follow the steps below:



✓ 1. Preparation

- Environment: Apply in a clean, dust-free indoor workspace (18–25°C recommended).
- Lighting: Ensure good lighting to check for dust particles or any imperfections.
- Surface: Wash the vehicle using a Ph-Neutral automotive shampoo and decontaminate the vehicle thoroughly using a clay bar.
- Final Clean: Wipe down with isopropyl alcohol (IPA 70%) to remove any oils, wax, or residues.
- Inspection: Ensure paintwork is clean and free from defects (scratches, chips, & respray dust).
- Paint Finish: Torian PPF are suitable for use on OEM factory paint. They can not be applied to ceramic coated paint surfaces.

✓ 2. Tools Required

- PPF applicator squeegees and felt edge (or buffer covered) squeegee.
- Heat gun with temperature control or IR lamp.

- Precision knife (30° blade) , blade braker & sharps-storage.
- Installation gloves.
- infrared laser thermometer.
- Clay bar and cleaning chemicals.

✓ 3. Application Steps

Panel Inspection

- Confirm the vehicles paintwork is in perfect condition (free of stone chips, scratches or any contaminants).

Film Handling

- Store the film vertical and in original packaging.
- Cut film to size with sufficient margin. (MATMAK is a suitable software package for pre-cut templates)
- Pre-position the cut template over the target panel to check alignment and coverage.
- Avoid touching adhesive with fingers.

Cap Sheet

- The cap sheet protects the surface during transportation and conversion.
- The cap sheet should be removed before installation.
- Keep the roll wound tightly to avoid cap sheet tunnelling.

Working Environment

- Installation of PPF must always be carried out in a dust free and clean environment
- The vehicle must be perfectly clean.
- We recommend using a clay bar for de-contamination after washing the vehicle.

Initial Tack & Alignment

- Place the film gently on the panel.
- Position the film accurately, ensuring alignment and even margins.
- Align key reference points (edges, curves and seams)
- The advanced micro-channel adhesive system allows for limited repositioning if done gently before full pressure is applied.

Dry Application Technique

- Starting from the centre of the panel, apply firm, even squeegee pressure outward to the edges.
- Work in overlapping strokes to eliminate air channels.
- Use controlled heat to conform the film to curves, recesses, and edges, activating the memory properties of the polyurethane.

Edges & Finishing

- Heat edges slightly and apply firm squeegee pressure to lock them in place.
- For sharp curves or deep recesses, use a combination of pre-stretch and post-heating (80–90°C).
- Trim carefully with a sharp blade, leaving a neat finish without cutting into the vehicle's paint.

Cutting & Trimming

- Ensure full adhesion before trimming excess.
- Never cut on a customer vehicle

Post-Application Care

- Allow film to rest for at least 12–24 hours indoors before exposure to rain, washing, or extreme conditions.
- Inspect edges after 48 hours and re-apply light heat and pressure if needed.

✓ 5. Aftercare & Maintenance

- Do not wash the vehicle for 7 days after installation.
- Use pH-neutral car shampoos and avoid harsh chemicals.
- Recommend ceramic coating (optional) for enhanced gloss and hydrophobic protection (NanoSerum is a preferred choice).
- Regularly inspect and maintain to prolong performance and finish.

✓ 6. Key Installer Tips

- Always apply in manageable sections; avoid overstretching.
- Use moderate heat – excessive heat may distort the film or adhesive.
- Practice first on smaller, flat panels before attempting complex curved areas.
- Remember: unlike wet-apply PPF, cleanliness and precision are critical – dust or debris cannot be flushed out.

✓ **Torian SpectraShield – delivering a paint-like finish with dry-apply precision and lasting protection.**

✓ **For installation training please contact sales@torian.group.**

Torian® Warranty

Due to the great variety of substrates and the growing number of new applications, the installer must check the suitability of the product for each application. In case of doubt, please request an expert evaluation of the compatibility of the film and the surface in question. All of the published information is based on measurements regularly performed in the laboratory. The published information does not however constitute a binding guarantee. The seller cannot be held liable for indirectly related damages and assumes no liability for claims that are higher than the replacement value of the purchased product. All specifications are subject to potential changes without prior notice.