

Repair Process for Headlight Surface Damage



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Repairing headlights

Currently damaged headlights are replaced even if there are only minor surface scratches.

Impact:

- High replacement costs, sometimes over €1,000
- Generates waste

By repairing headlight damage a bodyshop is able to:

- Sell labour and materials
- Reduce waste

AkzoNobel benefits through increased paint sales

A decorative graphic on the left side of the slide, consisting of a vertical red bar, a horizontal blue bar, and a vertical green bar, all overlapping at a central point.

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Damaged headlight

- **What can be repaired:**
 - Minor surface scratches and surface irregularities
- **What cannot be repaired:**
 - Headlight with coloured coating.
 - Headlight with texture on the glass surface.
 - Damage to headlight glass resulting from trapped moisture.

A decorative graphic on the left side of the slide, featuring a blue square, a red vertical bar, and a green vertical bar.

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What is required?

- Nitrile gloves
- Surface cleaning cloths
- Double action sanding machine
- 3M Soft back Interface pad (5 mm)
- 3M sanding paper
- P320, P400, P500, P600, P1000, P1500, Trizact P3000
- 3M guide coat powder
- Plastic Adhesion Primer
- Appropriate Surface Cleaners


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1. Surface cleaning

- Disassemble the headlight if possible
- Clean the surface thoroughly with BT 800 Degreaser followed by LV 350 Antistatic Silicon Remover

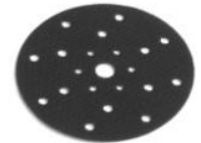


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2. Sanding Steps

- Start sanding by removing the gel coating with P320
 - Use a 5mm Soft Back Interface pad
- Continue sanding with P400, P500, P600 and P1000
 - Use guide coat between each sanding step
- Check if all scratches have been removed



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3. Final Sanding Steps

- Check the surface for remaining gel coating using M200



- Continue sanding with:
 - P1500 followed by Trizact (P3000)
- Double check if all edges are sanded
 - Do not use guide coat with these final sanding steps



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4. Final Surface Cleaning

- Clean the surface thoroughly using BT 800 Degreaser followed by M200



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5. 1K All Plastics Primer

- Mask the headlight
- Apply 1 flowing coat of the aerosol or sprayable version



– Aerosol



– Spraygun



– 20 minutes flash off at 20°C



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6. Clearcoat application

- Apply LV 853 Clear



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