



Technical Data Sheet (TDS)

Issued by:

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OEM REACTIVE SILICA GLASS COATING SUPERIOR HARDNESS FORMULA FOR HEADLIGHT

Product Lineup

- OEM Reactive Silica Glass Coating - Superior Hardness Formula for Headlight 15ml
- OEM Reactive Silica Glass Coating - Superior Hardness Formula for Headlight 30ml
- OEM Reactive Silica Glass Coating - Superior Hardness Formula for Headlight 50ml
- OEM Reactive Silica Glass Coating - Superior Hardness Formula for Headlight 80ml
- OEM Reactive Silica Glass Coating - Superior Hardness Formula for Headlight 250ml
- OEM Reactive Silica Glass Coating - Superior Hardness Formula for Headlight 500ml
- OEM Reactive Silica Glass Coating - Superior Hardness Formula for Headlight 1L (500ml × 2)
- OEM Reactive Silica Glass Coating - Superior Hardness Formula for Headlight 4L
- OEM Reactive Silica Glass Coating - Superior Hardness Formula for Headlight 15L



1. Product Concept

This product is a hand-applied, reactive silica-based glass coating specifically developed for polycarbonate headlamp covers.

It forms a dense silica framework upon curing, providing long-lasting protection against haze and yellowing.

The coating maintains optical clarity and transparency while delivering superior hydrophobic and anti-stain performance to preserve headlight appearance and visibility.

2. Composition & Key Features

- Type: Hand-applied, reactive-curing silica glass coating (wipe-off type)
- Applicable Materials: Polycarbonate headlamp covers
- Recommended Usage Amount: Approx. 4 ml per vehicle (both sides)
- Form: Liquid (curing type)
- Finish: Clear, high-gloss, high-hardness finish

Key Features

- Forms a dense silica framework through reactive curing
- Suppresses haze and yellowing to maintain long-term transparency
- Provides hydrophobic and anti-stain performance
- Smooth surface minimizes light diffusion and preserves optical clarity

3. Performance & Characteristics

Water Repellency

The cured silica film repels water effectively, reducing moisture retention on headlamp surfaces.

Gloss

A smooth, high-transparency film enhances clarity and maintains a clean, glossy appearance.

Workability

Designed for thin, uniform application with reliable wipe-off before curing.



Compatibility

Optimized for polycarbonate substrates; not intended for other plastics or painted surfaces.

Surface Resistance

Dense film structure provides resistance to daily wear and washing-related micro-abrasion.

4. Recommended Application Areas

- Polycarbonate headlamp covers
- Transparent polycarbonate fog lamp covers

5. Application Method

1. Rinse off dust and mud, then wash with a neutral shampoo.
2. Dry thoroughly to remove all moisture.
3. Apply a small amount to an applicator and spread very thinly and evenly.
4. Within 2–3 minutes (before curing), wipe off completely with a clean microfiber towel.
5. Inspect for streaks or residues.

[Preparation] If haze or yellowing exists, polish with a plastic compound, then degrease and dry before coating.

6. Precautions During Application

- Avoid direct sunlight or hot surfaces during application.
- Do not apply thickly, as this may cause haze or streaking.
- Ensure complete wipe-off within 2-3 minutes before curing progresses.



7. Summary of Product Properties

- Type: Reactive silica-based glass coating (wipe-off type)
- Target Substrate: Polycarbonate headlamp covers
- Usage per Vehicle: Approx. 4 ml (both sides)
- Film Characteristics: High clarity, high smoothness, dense silica framework
- Functions: Suppresses haze and yellowing; provides hydrophobic and anti-stain performance; maintains appearance
- Country of Origin: Japan

8. Remarks

- If the polycarbonate substrate is already degraded, haze may reappear within several months. In such cases, re-polish and reapply as needed.
- Actual durability may vary depending on usage environment and UV exposure.
- This document provides technical reference information and does not guarantee product performance.

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The information contained in this Technical Data Sheet is based on current technical knowledge at the time of publication.

Specifications and details are subject to change without prior notice.