# SIO-6311Y Matte Leather Anti-Graffiti Nano Protective Coating

## Product Description:

**SIO-6311Y** is a premium **matte leather anti-graffiti nano protective coating** specially developed for high-end natural leather and synthetic leather surfaces requiring an elegant low-gloss finish, superior stain resistance, and long-lasting protection.

Utilizing advanced Sol-Gel nanotechnology, SIO-6311Y combines modified silane nano-polymers, nano silica sol, and flexible polyurethane technology to create an ultra-thin nano-scale protective layer that chemically bonds with leather fibers rather than forming a conventional surface film.

Unlike traditional glossy leather coatings, SIO-6311Y delivers a refined **matte appearance** that reduces unwanted surface reflection while preserving the original leather grain, softness, and natural tactile feel. The cured coating provides outstanding hydrophobicity, oleophobicity, anti-graffiti performance, abrasion resistance, and UV durability without affecting the breathability or flexibility of the leather.

The coating effectively prevents permanent staining from ballpoint pen ink, permanent markers, beverages, body oils, cosmetics, food stains, and other everyday contaminants. Most stains can be removed easily before penetrating the leather surface, significantly reducing maintenance costs and extending service life.

Designed for premium leather applications, SIO-6311Y is ideal for luxury furniture, automotive interiors, handbags, footwear, aviation seating, yacht interiors, commercial leather products, and other high-end leather surfaces where both sophisticated matte aesthetics and superior protection are required.

## Features:

**Elegant Matte Finish**
Produces a luxurious low-gloss appearance that enhances the premium texture of leather while eliminating excessive surface shine.

**Outstanding Anti-Graffiti Performance**
Protects leather against permanent marker, ballpoint pen ink, lipstick, cosmetic stains and other difficult contaminants.

**Superior Anti-Fouling Performance**
Repels water, oil, beverages, coffee, tea, sauces, sweat and daily dirt, making cleaning quick and effortless.

**Nano Chemical Bonding**
Forms molecular-level chemical bonds with leather fibers for significantly improved durability compared with conventional wax or silicone treatments.

**Flexible Protection**
Maintains excellent flexibility and elongation without cracking or peeling during repeated bending and stretching.

**Excellent Breathability**
The ultra-thin nano coating preserves the natural breathability and softness of genuine leather.

**UV & Weather Resistance**
Protects leather against UV aging, discoloration and oxidation while maintaining long-term appearance.

**Long Service Life**
Provides durable protection for 4–5 years under normal indoor service conditions.

**Environmentally Friendly**
Low odor formulation suitable for indoor furniture and automotive interior applications.

## Typical Properties

| Property | Specification |
|---|---|
| Appearance | Transparent Slight Yellow Liquid |
| Finish | Matte |
| Technology | Modified Silane Nano Coating |
| Solid Content | 20–25% |
| Density (25°C) | 0.95–1.05 g/cm³ |
| Viscosity (Ford Cup No.4, 25°C) | 10–13 s |
| Dry Film Thickness | Approx. 3 µm |
| Coverage | 60–130 m²/L |
| Tack-Free Time | 3–4 hours |
| Full Cure | 24 hours |
| Hardness | HB |
| Adhesion | ≤ Grade 1 |
| Water Contact Angle | >105° |
| Oil Repellency | Excellent |
| VOC | Low VOC |
| Gloss Change | Produces elegant matte finish |

| Property | Specification |
| --- | --- |
| Service Life | 4–5 years |

## Recommended Leather Types：

Suitable for

- Full Grain Leather
- Top Grain Leather
- Genuine Leather
- PU Leather
- PVC Leather
- Microfiber Leather
- Artificial Leather
- Eco Leather

## Typical Applications：

### Luxury Furniture

- Leather sofas
- Leather chairs
- Upholstered wall panels
- Premium office furniture

### Automotive Interiors

- Leather seats
- Steering wheels
- Door panels
- Armrests
- Center consoles

### Luxury Goods

- Designer handbags
- Wallets
- Leather belts
- Premium shoes
- Boots

### Commercial Seating

- Hotel furniture
- Airport seating
- Cinema seating
- Office seating

**Marine & Aviation**

- Yacht interiors
- Aircraft seating
- VIP cabins

## Performance：

Excellent resistance against

- Ballpoint Pen Ink
- Permanent Marker
- Coffee
- Tea
- Soft Drinks
- Wine
- Cooking Oil
- Cosmetics
- Body Oil
- Sweat
- Dust
- Mud
- Fingerprints

## Application Method：

**Surface Preparation**

The leather surface should be completely clean and dry.

Remove

- Dust
- Wax
- Oil
- Silicone residue
- Leather conditioners
- Other contaminants

Recommended application temperature:

15–35°C

Relative humidity:

30–70%

**Application**

Apply a small amount of SIO-6311Y onto a microfiber cloth.

Spread evenly using overlapping circular or cross-hatch motions.

Apply **2–3 thin coats** continuously.

For industrial production, HVLP spray equipment may also be used.

**Curing**

Tack-free:

Approximately **3–4 hours**

Full Cure:

24 hours

Avoid water or heavy abrasion during curing.

## Storage：

Store in original sealed container.

Storage temperature: -3°C to +30°C

Protect from moisture.

Keep container tightly closed immediately after use.

Shelf Life: 12 months