

# SO-166

## Solid

A mid-tone, neutral solid colour in gray, with a matte surface. Suited to furniture and cabinets.

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|---|---|---|---|
| SURPHETTA SKU | SO-166 | COLLECTION | Solid |
| FAMILY | Solid colour | COLOUR | Gray, mid tone |
| SURFACE | Matte | ROLL | 1220 mm × 50 m (48 in × 164 ft) |
| SUITED TO | Furniture, Cabinets | PREVIOUSLY MARKED AS | S235 |

## DATA SHEET

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|---|---|---|---|
| CONSTRUCTION | Printed, embossed film with pre-applied air-channel pressure-sensitive adhesive | THICKNESS | 250 µm |
| ROLL SIZE | 1220 mm × 50 m (48 in × 164 ft) | FIRE PERFORMANCE | Class A (Class 1) to ASTM E84; B1 not-easily-flammable to DIN 4102-1 |
| ENVIRONMENTAL | VOC-free; resistant to mould and fungus | WARRANTY | 10 years on the film; 5 years on installations by Surphetta certified installers |
| SUBSTRATES | Wood, MDF, painted drywall, metal, glass, laminate and plastic, correctly prepared | APPLICATIONS | Walls, ceilings, doors and frames, casework, columns, reception joinery, lift interiors and commercial fit-out |

## PUBLISHED TEST DATA

| PROPERTY | RESULT | METHOD |
|---|---|---|
| **Pencil hardness** | 3H | ASTM D3363 (750 g) |
| **Abrasion loss** | 15.1 mg | ISO 9352, CS-10 wheel, 1,000 g, 1,000 cycles |
| **Peel adhesion** | 7.83 N/mm at 30 min, 10.29 N/mm at 24 h, 6.71 N/mm after ageing | KS T 1028, 180° peel from steel |
| **Elongation at break** | 220% transverse, 80% machine | KS T 1028 |
| **Tensile strength** | 42.9 N/10 mm transverse, 60.2 N/10 mm machine | KS T 1028 |
| **Right-angle tear** | 21.0 N transverse, 18.8 N machine | KS M 3505 |
| **Fungal resistance** | Rating 0, no growth in 28 days (control: heavy growth) | ASTM G21, five fungi (SGS, 2025) |
| **Bacterial resistance** | No growth in 21 days (control: growth) | ASTM G22 (SGS, 2025) |
| **Stain resistance** | No change after 24 h contact: coffee, cola, wine vinegar, olive oil, ethanol, acetone, 5% acetic acid, 5% ammonia, 0.5% detergent and others | Manufacturer test series |
| **Global warming potential** | 1.96 kg $CO_2$ eq./m² | Environmental Product Declaration |
| **Application temperature** | 12 to 38 °C (54 to 100 °F); full adhesive strength in 3 to 7 days | Manufacturer guidance |

## COMPLIANCE

**ASTM E84 CLASS A**
Interior finishes across the range for US interior use. Also reported to CAN/ULC-S102 and DIN 4102-1 (B1).

**LIFT INTERIORS**
ASME A17.1, CSA B44 and TSSA recorded in the manufacturer's bulletin.

**MATERIAL CONTENT**
Cadmium, lead, mercury and hexavalent chromium not detected. Phthalates under 50 mg/kg. No formaldehyde released.

## CARE AND MAINTENANCE

**AFTER INSTALLATION**
Allow 3 to 7 days for the film to reach full adhesion before the final quality check.

**DAILY CLEANING**
Soft sponges or microfibre cloths, so the surface is not scratched.

**STAINS**
For hard-to-remove marks, a 1:1 mix of ethanol and water. Melamine sponges are recommended.

**AVOID**
Harsh abrasive cleaners and scouring pads, cutting with a knife on the film, and hot metal objects on the surface.

**REPAIR**
If an edge lifts, call your installer before it spreads.

*Figures published by the manufacturer. Confirm current specification and certification for the project of record. Swatch shown for reference; colour may differ from the product.*

**Surphetta by Spartan Surfaces**
800-997-7604 · inquire@spartansurfaces.com
www.surphetta.com/finishes/so-166-solid