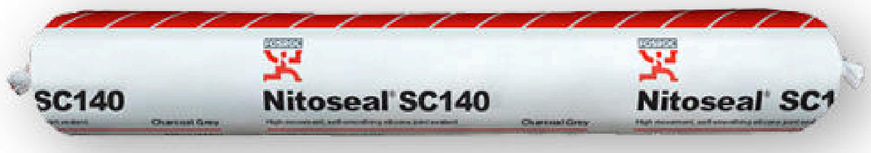
TECHNICAL DATA SHEET

Nitoseal SC140

PRODUCT DESCRIPTION

Nitoseal SC140 is a one-part, gun-applied, neutral cure silicone sealant designed for civil and industrial applications. It cures rapidly to form a tough, durable, weather-tight joint with excellent adhesion to most construction materials. The advanced polymer system ensures superior resistance to abrasion, pick damage, UV, and weathering, while its non-staining formulation makes it suitable for porous materials such as concrete, marble, and granite.



FEATURES & BENEFITS

- Very fast curing – enables quick return to service
- Dual-purpose – can be used as a sealant or adhesive
- Pick-resistant – ideal for public buildings and security facilities
- Abrasion and weather resistant
- Excellent adhesion to most construction materials
- Non-staining – safe for porous substrates
- Movement accommodation factor: ±25%

APPLICATIONS

- Trafficable floor joints
- Assembly of metal framed buildings
- Cover plates and covings
- Bolted lap joints
- High-security facilities (prisons, gaols, grandstands)
- General concrete and masonry joints

STANDARD COMPLIANCE

- EPA Group Standard: HSR002670 – Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2020

DESIGN CRITERIA

- Designed for movement joints 10–35 mm wide
- Can also be used in joints as narrow as 5 mm and up to 50 mm under suitable conditions
- Sealant depth guidelines:
  - Minimum 10 mm for joints 10–20 mm wide
  - 2:1 (width:depth) ratio for joints >20 mm wide
- Movement Accommodation Factor (MAF): ±25% (50% total)

PACKAGING & AVAILABILITY

Product Code	Description
130837	Nitoseal SC140 Sealant 600ml

TECHNICAL SPECIFICATIONS

PHYSICAL PROPERTIES

Property	Specification
Form	Non-slump thixotropic paste
Colour	Concrete Grey
VOC Content	46 g/L
Cure Type	Neutral cure (non-acidic)
Movement Accommodation Factor	±25%
Shore A Hardness	50 ± 5
100% Modulus	~1.0 MPa (ASTM D412)
Service Temperature	−50 °C to +150 °C
Application Temperature	≥5 °C
Tooling Time	10 minutes @ 25 °C / 65% RH
Cure Rate	~5 mm (first 24h), 2 mm/day thereafter

APPLICATION INSTRUCTIONS

Joint Preparation

- Surfaces must be sound, dry, clean, and frost-free.
- Remove oils, grease, curing compounds, release agents, and other contaminants by grinding or solvent wiping.
- Suitable for direct use on powder-coated metals and Colour Bond steel.

Priming

- For moving joints, priming is recommended.
  - Select Primer recommended for Concrete, brick, porous substrates
  - Select primer required for Concrete subject to immersion, fibreglass
- All primers must be touch dry before sealant application.

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Bond Breakers and Backing Rods

- Prevent three-sided adhesion by using polyethylene bond breaker tape or closed-cell polyethylene backing rod.

Sealant Application

- Fit the sausage into a suitable gun and apply with steady pressure.
- Ensure the sealant wets all joint surfaces for optimum adhesion.

Tooling

- Tool immediately using a smooth convex tool.
- Do not use soapy water or tooling agents.

Cleaning

- Uncured sealant: remove with solvent.
- Cured sealant: remove mechanically.

Coverage:

- 600 ml sausage seals ~6 m of a 10 × 10 mm joint or 3 m of a 10 × 20 mm joint.

Limitations

- Do not apply in close proximity to bituminous materials or reclaimed rubber products.

Storage:

- Shelf life: 12 months (unopened)
- Store in cool, dry conditions away from sunlight

Chemical Resistance

- Resistant to dilute acids and alkalis
- Not resistant to organic solvents
- Resistant to weathering, UV, and ozone

SAFETY INFORMATION

Classification

- Hazardous, Non-Dangerous Goods (Safe Work Australia GHS 7)
- Not classified as Dangerous Goods for road, rail, sea, or air transport

GHS Hazard Class

- Skin Sensitisation – Category 1
  - **Signal Word**: Warning
  - **Hazard Statement: H317** – May cause an allergic skin reaction

Precautionary Statements

- Prevention: Keep out of reach of children. Avoid breathing vapours, mist, or spray. Wear gloves, protective clothing, and eye/face protection. Wash your hands after handling.
- Response: If on skin, wash with soap and water. If irritation persists, seek medical advice. Remove contaminated clothing and wash before reuse.
- Disposal: Dispose of product and containers in accordance with local regulations.

First Aid Measures

- **Inhalation:** Move the victim to fresh air. Seek medical advice if symptoms persist.
- **Skin Contact:** Wash with soap and water. Seek medical attention if irritation continues.
- **Eye Contact:** Rinse with water for several minutes. Seek medical attention if irritation persists.
- **Ingestion:** Rinse mouth, do not induce vomiting. Give water to drink, seek medical advice.

Fire Fighting Measures

- Suitable media: Water fog, alcohol-resistant foam, standard foam, dry chemical, or CO_2
- Hazards: Residual material may burn if ignited
- Protection: Firefighters should wear SCBA and protective clothing

Accidental Release Measures

- Small spills: Wipe with an absorbent cloth or paper
- Large spills: Contain with sand/soil, collect in sealed containers. Slippery when spilt.

Exposure Controls / PPE

- Natural ventilation is generally adequate
- PPE: Safety shoes, nitrile gloves, safety glasses, overalls
- Hygiene: Wash hands before eating, drinking, or smoking

Stability & Reactivity

- Stable under normal conditions
- Avoid heat, ignition sources, oxidisers
- May release carbon oxides and toxic fumes if burned

Toxicological Information

- Inhalation: May irritate the respiratory tract
- Skin: May cause allergic reaction/dermatitis
- Eyes: May cause irritation
- Ingestion: May cause nausea or GI irritation
- Not mutagenic, carcinogenic, or reproductive toxicant

Ecological Information

- Avoid release to waterways
- Not hazardous to aquatic life (acute or chronic)

Disposal Considerations

- Dispose via licensed contractors
- Do not pour into drains, waterways, or landfill
- Recycle packaging where possible

Transport Information

- Not classified as Dangerous Goods (road, rail, sea, or air)

Regulatory Information

- All ingredients listed on/exempt from AIIC (Australia) and NZIoC (New Zealand)
- HSNO Group Standard: HSR002544 – Construction Products (Subsidiary Hazard) Group Standard 2020

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