

Fosroc® Nitoseal® SC140



constructive solutions

(Replaces Emer-Seal Construction Silicone HM-FC)

Fast curing, tough, pick and abrasion resistant, one-component silicone sealant / adhesive for civil and industrial applications

Uses

For bonding or sealing joints between most construction materials, where a high bond strength is required. Fast-curing formulation gives rapid cure with convenience of single component sealant.

- Trafficable floor joints
- Assembly of metal framed buildings
- Cover plates and coverings
- Bolted lap joints
- Prisons, gaols, grand stands

Advantages

- Very fast curing - where quick return to service time is required
- Suitable for use as a sealant or adhesive
- Ideal for wide floor joints
- Pick resistant - suitable for high security establishments and public buildings
- Tough and abrasion resistant
- Weather resistant
- Good adhesion to most construction materials
- Will not stain porous construction materials such as concrete, marble or granite

Description

Nitoseal SC140 is a one part, gun applied, neutral cure silicone sealant which cures very rapidly to form a durable, weathertight seal. Nitoseal SC140 remains permanently flexible and weatherproof under a wide range of climatic conditions. The unique polymers utilised in this 'state of the art' sealant combine to provide the outstanding weathering performance, for which silicone sealants are renown, with no risk of staining porous building materials.

Design criteria

Nitoseal SC140 is designed for sealing movement joints between 10mm and 35mm wide however joints down to 5mm and up to 50mm wide can be sealed under suitable conditions.

The movement accommodation factor (MAF) of a joint sealant must be considered in the design width and spacing of movement joints in a structure.

The sealant Width to Depth ratio should be kept at a minimum depth of 10mm for joint widths between 10mm and 20mm and 2:1 for joint widths greater than 20mm.

For further details contact Fosroc for specific advice.

Properties

Form:	Non slump thixotropic paste
Colour:	Concrete Grey
VOC content:	46g / litre
Movement accommodation factor:	+25% / -25% (50% total)
Typical hardness:	50 (+ 5) Shore A
Physical or chemical change:	Chemical cure (non-acidic)
100% Modulus:	1.0 MPa (ASTM D412)
Application temperature:	Minimum 5°C
Service temperature:	-50°C to +150°C
Tooling time:	10 minutes @ 25°C / 65%RH
Cure rate:	Approx. 5mm for 1st day at 25°C / 65% RH then 2mm / day thereafter

Application instructions

Preparation

Joint faces must be sound and completely dry, clean and frost free. Oil, grease, curing compounds, form release agents, and all surface contaminants must be completely removed by grinding joint faces or by using Fosroc Solvent 10.

Nitoseal SC140 is suitable for use directly onto powder coated metals and ColorBond steel surfaces.

Priming

For optimum results, particularly with moving joints, priming is always recommended.

Primer 10:	Concrete, brick and most porous substances
Primer 13:	Concrete surfaces subject to water immersion, fibreglass

For other surfaces, or where any doubt exists, test first or contact Fosroc for advice.

Primer drying times:

Primer 10:	30 minutes
Primer 13:	30 minutes - 2 hours

Primer 13 must be thoroughly mixed before applying.

All primers must be touch dry before applying sealant. Reprime if the sealant is not applied within 8 hours after primer application.

Bond breakers and joint fillers

In moving joints, the sealant must not be allowed to bond to the back face of the joint. Prevention of 3 sided adhesion is achieved by installing either a polyethylene bond breaker tape, or through the use a polyethylene foam backing rod.

Fosroc®

Nitoseal® SC140

Application

Fit the sausage of Nitoseal SC140 into a suitable sausage gun and gun firmly into joint. Ensure sealant is forced well against all joint surfaces to achieve good surface wetting and thus optimum adhesion. Guide nozzle along the joint gradually, applying even pressure to the trigger. The joint must be filled completely at all points.

Tooling

Immediately after application the sealant should be tooled. Use a smooth convex tool to produce both the required surface finish and to assist in further forcing the sealant into good contact with the joint faces. The use of use soapy water as a tooling aid is not recommended as the cure of the sealant may be adversely affected.

Cleaning

Equipment should be cleaned promptly by wiping with Fosroc Solvent 10, as cured sealant is very difficult to remove. Cured sealant can only be removed by mechanical methods. Soaking the equipment in Fosroc Solvent 10 makes removal of cured sealant easier.

Limitations

Elastomeric sealants such as Nitoseal SC140 should not be applied in close proximity to bituminous materials or products containing reclaimed rubber (e.g. some tile adhesives). If any doubt exists, contact Fosroc.

Estimating

Supply

Nitoseal SC140 is supplied in 600ml foil sausages in cartons of 12.

Nitoseal SC140 Concrete Grey: FC920150-600ML

Ancillaries

Primer 10 (250ml):		FC965214-250ML
Primer 13 (250ml pack):	Base:	FC965229-125ML
	Hardener:	FC965230-125ML
Primer 13 (1 litre pack MTO):	Base:	FC965229-500ML
	Hardener:	FC965230-500ML

Coverage

Each 600 ml sausage of Nitoseal SC140 will seal 6 metres of a 10 x 10mm joint or 3 metres of a 10 x 20mm joint.

As a guide, 250 ml of primer will be required for every 12 sausages on porous surfaces or for every 50 sausages on non-porous surfaces.

Storage

Shelf life 12 months in unopened containers stored under cool, dry conditions.

Important notice

A Safety Data Sheet (SDS) and Technical Data Sheet (TDS) are available from the Parchem website or upon request from the nearest Parchem sales office. Read the SDS and TDS carefully prior to use as application or performance data may change from time to time. In emergency, contact any Poisons Information Centre (phone 13 11 26 within Australia) or a doctor for advice.

Product disclaimer

This Technical Data Sheet (TDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this TDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Parchem does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.



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