



WATERPROOFING

APPLICATIONS

CIVIL ENGINEERING

PARKING DECKS

ALSAN CIVIL SN 471

TECHNICAL DATA SHEET 211206SCANE

(Supersedes 211115SCANE)

DESCRIPTION

ALSAN CIVIL SN 471 is a transparent, highly penetrating silane based sealer. It serves as a high-quality water repellent for impregnating alkaline mineral surfaces. Once impregnated with **ALSAN CIVIL SN 471**, building material retains very high water-vapor permeability. It improves durability against stress caused by freeze-thaw and de-icing salt.

Approved by the Québec Ministry of Transportation under MTQ 3601 Standard and approved by the Alberta Ministry of Transportation as a Type 1b and Type 1c penetrating sealer.

RECOMMENDED SUBSTRATES

ALSAN CIVIL SN 471 is recommended for structures made of reinforced concrete such as bridges, roads and parking lots. It is also recommended for maritime works.

SURFACE PREPARATION

- Concrete must be allowed to cure for a minimum of 28 days. Applying **ALSAN CIVIL SN 471** earlier may prevent the product from penetrating ideal depth required for proper performance. The concrete must have less than 8% humidity to install the **ALSAN CIVIL SN 471**.
- Concrete repair and replacement must be completed prior to application. Patching materials, caulking, sealing materials and traffic paint must be fully cured before applying **ALSAN CIVIL SN 471**.
- New surfaces that are still unsoiled must be cleansed of coarse particles and dust deposits by sweeping, or if necessary, using compressed air.
 - Surfaces already weathered must be cleaned to remove all traces of dirt, dust, efflorescence, mold, salt, grease, oil, asphalt, laitance, curing compounds, paint, coatings and other foreign materials. Acceptable surface cleaning methods include shotblasting, sandblasting, waterblasting and using chemical cleaners.

APPLICATION

Prior to application, protect all surfaces that are not intended to receive **ALSAN CIVIL SN 471**.

Evenly apply **ALSAN CIVIL SN 471** to the building material using low-pressure (15 to 25 psi) pumping equipment with a wet fan type spray nozzle, a power roller with a 1" nap or a brush.

A test patch should be applied to the substrate to verify coverage rate and application conditions.

A flood application of the material is required. On horizontal surfaces, the liquid material shall pond on the surface at least 5 seconds before being absorbed. On vertical surfaces, start application at the top of the wall and work down the surface. The liquid material shall run down 6-8 inches below the spray pattern. For certain substrates, it may be necessary to apply a light fog coat to break the substrate's surface tension before the flood coat.

Make sure to redistribute or remove after 10 to 15 minutes the excess material on the surface before material starts to dry and form a film that will prevent penetration of excess material.

After water repellent has dried thoroughly, spray the building material with water. After the watered surfaces have adequately dried, recoat with **ALSAN CIVIL SN 471** the surfaces showing water absorption (*This means that the substrate has not received a sufficient amount of ALSAN CIVIL SN 471*).

Application temperatures: -7 to 40 °C (19 to 104 °F)



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Note: - Do not alter or dilute the material.

- Do not apply to a wet or damp substrate. Substrate must not have been exposed to precipitations occurred within 24 hours prior to application.
- Do not apply material if rain is predicted within 2 hours after application.
- In the event of unexpected rain, cover surfaces already impregnated and stop all further application.
- On horizontal surfaces, traffic must be kept off the treated surfaces until an hour after the treated surface has completely dried.
- Not intended for below-grade waterproofing.

WARNING: ALSAN CIVIL SN 471 is a combustible liquid and should be kept away from heat, sparks, open flame and other sources of ignition.

FOR COMPLETE INFORMATION ON PRODUCT INSTALLATION, PLEASE CONSULT YOUR SOPREMA REPRESENTATIVE.

PACKAGING

Specifications	ALSAN CIVIL SN 471
Physical state	Liquid
Color	Clear
Containers	18.9 L (5 US gal.) 204.5 L (54 US gal.)
Coverage ⁽¹⁾	6.8 m ² /L (277 ft ² /US gal.)
Coverage per container ⁽¹⁾	18.9 L (5 US gal.) 129.3 m ² (1 391 ft ²) 204.5 L (54 US gal.) 1 399 m ² (15 058 ft ²)
Drying time ⁽²⁾	1-2 h
Penetration depth,	Concrete 0.50 w/c ratio 10 to 16 mm (3/8 to 5/8 in) Concrete 0.42 w/c ratio 10 to 13 mm (3/8 to 1/2 in)

(All values are nominal)

(1) Material coverage should not exceed the prescribed rates in order to achieve the desired effect and avoid compromising the performance of the product.

Note: All coverage rates are approximate and may vary due to the application technique and surface roughness.

(2) Minimum drying times are approximate and may vary. Actual drying time should be established in the field, based on actual field conditions.

PROPERTIES

Properties	Standards	ALSAN CIVIL SN 471
Density	ASTM D1475	0.88 g/ml
V.O.C.	ASTM-D 5095-91 EPA Method 24	390 g/l
Silane content	-	100 %

(All values are nominal)



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CLEANING

Tools and equipment can be cleaned with mineral spirits or denatured ethanol.

STORAGE AND HANDLING

ALSAN CIVIL SN 471 may be stored for up to 12 months in the original unopened container. Protect containers from water, heat, sunlight and any sources of ignition such as sparks and open flames.

Containers must be stored at temperatures between -18°C (0°F) and 50°C (120°F) at all times. Storing containers at high temperatures reduces the life of the product.

For more information, please refer to the instructions on the container label and the relevant Material Safety Data Sheet (MSDS).



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