



WATERPROOFING

APPLICATIONS

BRIDGES

PARKING DECKS

# ALSAN CIVIL P70

TECHNICAL DATA SHEET 220111SCANE

(Supersedes 211101SCANE)

## DESCRIPTION

ALSAN CIVIL P70 is a clear two-component fast curing polymethyl methacrylate (PMMA) primer. ALSAN CIVIL P70 is used to improve the ALSAN CIVIL, ANTIROCK and TRAFIKROCK systems adhesion. ALSAN CIVIL is used for waterproofing applications of bridges, parking decks and any other civil engineering structures.

ALSAN CIVIL P70, mixed with silica sand, can also be used to make larger concrete repairs if required.

## RECOMMENDED SUBSTRATES

ALSAN CIVIL P70 is used on concrete and steel surfaces.

## SURFACE PREPARATION

The substrate should be clean, sound, dry and free from dirt, grease, oil, peeling paint, loose rust chalk, soluble salts and other foreign matter and any contaminants, that may compromise the performance of the product as well as its adhesion. Ensure that the temperature of the substrate is at least 3 °C above dew point temperature during application and curing.

### Preparation of concrete surfaces:

1. The concrete must be fully cured (28 days) with a minimum hardness of 24 MPa (3,500 psi). The surface must be dry, clean and free of dust or debris.
2. The concrete surface must be prepared by shot blasting with steel balls to obtain a concrete surface profile (ICRI CSP) of 3 or 4. To achieve such a profile, the use of special equipment such as for shot blasting is recommended.
3. The concrete substrate must have a maximum moisture content of 5 % (ASTM F2659) or 1.5 kg / 100 m<sup>2</sup> / 24 h (ASTM F1869) or an internal content of relative humidity of 75% (ASTM F 2170).

### Preparation of steel surfaces:

1. Surface preparation for steel substrates must meet standard SSPC-SP10

Note: The surface profile must allow sufficient adhesion of ALSAN CIVIL P70 to steel; a peel test according to ASTM D4541 may be done to confirm proper adhesion of the primer to the surface.

## APPLICATION

**MIXING:** Using a slow-speed (200 to 400 rpm) mechanical agitator, thoroughly mix the content of the resin container for two minutes before each use.

Add ALSAN RS CATALYST POWDER only to the amount of resin that can be used in the next 10 to 15 minutes.

Add the pre-measured amount of ALSAN RS CATALYST POWDER to the resin, stir for 2 minutes and apply to the substrate.

Refer to the Catalyst Mixing Chart for additional information.



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## CATALYST MIXING CHART

Catalyst dosage	
Temperature range	Catalyst activation <sup>(1)</sup>
0 °C <sup>(2)</sup> to 5 °C (32 °F <sup>(2)</sup> to 41 °F)	6 %
5 °C to 15 °C (41 °F to 59 °F)	4 %
15 °C to 20 °C (59 °F to 68 °F)	3 %
20 °C to 35 °C (68 °F to 95 °F)	2 %
35 °C and up (95 °F)	1.5 %

(1) Mass percentage.

(2) For applications at temperatures below 0 °C (32 °F), please contact your SOPREMA representative.

## APPLICATION

Application Temperature: 0 °C to 35 °C (32 °F to 95 °F).

### Used as a primer

Apply a coat of **ALSAN CIVIL P70** to a wet film thickness of 560 µm (22 mils) using a roller or a flat squeegee on the clean and prepared substrate.

The resin must be smooth and even.

### Used to carry out repairs

The contact surface must be coated with **ALSAN CIVIL P70** catalyzed resin without the addition of silica sand.

Then prepare a batch of **ALSAN CIVIL P70** in which silica sand will be incorporated. SOPREMA suggests one part of resin for two parts (by volume) of sand (ratio = 1:2).

**Note:** *The proportions of the mixture can vary according to the preferences of the applicator. The size of the sand can also vary and thus affect the state of the mixture. Finer sand will result in a smoother finish, while coarser sand will result in a grainier finish.*

Apply the mixture to the surface previously coated with **ALSAN CIVIL P70** resin (still wet) using a spatula or any other tool allowing the applicator to obtain an even surface levelled with the surrounding surfaces.

- Limitations:**
- For repairs of more than one square foot, the maximum working depth must not exceed 12 mm (1/2 in).
  - If the repair to be carried out represents more than a square foot and more than 12 mm (1/2 in) in depth, a successive number of coats must be applied, always limiting each application to 12 mm (1/2 in). There is no limit as to the number of layers that can be applied one after another. The respective curing time of the previous layer must, however, be respected before proceeding with the application of the next layer.
  - If the repair area reaches a depth of less than 12 mm (1/2 in), there will be no limitation in terms of the extent of the area to be repaired.

FOR MORE INFORMATION ON THE INSTALLATION OF PRODUCTS, PLEASE CONSULT A SOPREMA REPRESENTATIVE.



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## Reaction time

Pot life at 23 °C (73 °F)	15 minutes
Rainproof at 23 °C (73 °F)	30 minutes
Fully cured at 20 °C (68 °F)	3 hours

\* The pot life depends on the ambient temperature and will be reduced at high temperatures. A higher percentage of catalyst will also reduce pot life. The minimum hardening time is approximate and may vary. The actual hardening speed must be established in the field, depending on the actual conditions of the site. In cold weather, the curing time will be lengthened.

## PACKAGING

Characteristics	ALSAN CIVIL P70		
Physical state	Liquid		
Colour	Clear		
Density at 23 °C (73 °F)	1.02 kg/L		
Viscosity at 23 °C (68 °F)	1000 cP		
Packaging	19.6 L (20 kg)	196 L (200 kg)	1 000 L (1020 kg)
Coverage <sup>(1)</sup>	<u>19.6 L Kit:</u> 33.4 m <sup>2</sup> (360 ft <sup>2</sup> ) Wet film thickness: 559 µm (22 mils)	<u>196 L Kit:</u> 334.5 m <sup>2</sup> (3 600 ft <sup>2</sup> ) Wet film thickness: 559 µm (22 mils)	<u>1 000 L Kit:</u> 197 625 m <sup>2</sup> (18 360 ft <sup>2</sup> ) Wet film thickness: 559 µm (22 mils)

(All values are nominal)

(1) All coverage rates are approximate and may vary due to the application technique and surface roughness.

## PROPERTIES

Properties	Standards	ALSAN CIVIL P70
Shore D hardness after 7 days	ASTM D2240	70
Tear resistance on concrete	ASTM D7234	> 1.5 MPa
Tear resistance on steel	ASTM D4541	> 2 MPa

(All values are nominal)

## CLEANING

Tools must be cleaned with ALSAN RS CLEANER.

## STORAGE AND HANDLING

ALSAN CIVIL P70 may be stored for up to 12 months in the original unopened container. Store in a cool and dry area. Do not expose the containers to direct sunlight and heat.

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



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