



WATERPROOFING

APPLICATIONS

BRIDGES

PARKING DECKS

ALSAN CIVIL Z71

TECHNICAL DATA SHEET 230609SCANE

(Supersedes 220216SCANE)

DESCRIPTION

ALSAN CIVIL Z71 is a UV resistant two-component crack sealant made of fast-curing, very low viscosity polymethyl methacrylate (PMMA) resin. ALSAN CIVIL Z71 seals cracks on concrete surfaces of civil engineering structures and parking decks.

SURFACE PREPARATION

The surface must be dry, clean and free of loose particles, formwork residue, curing compounds, grout, etc. Concrete must be completely cured (28 days).

APPLICATION

MIXING

Using a low-speed mechanical agitator (300 RPM), thoroughly mix the entire contents of the resin container for two minutes before each use and before pouring the resin into a second clean container if you are mixing in batches. Add the pre-measured ALSAN RS CATALYST POWDER in the resin container and stir for two minutes. Refer to the catalyst mixing chart for more information.

APPLICATION

After mixing, apply the resin over clean and dry cracks and use a flat squeegee or a roller to apply the resin. The resin must be completely cured before proceeding with concrete surface preparation.

CATALYST MIXING CHART

Catalyst dosage	
Temperature range	Catalyst activation *
0 °C** to 5 °C (32 °F** 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 + (95 °F)	1.5%

* Mass percentage

** For installation under 0 °C (32 °F), please contact a SOPREMA representative.

Reaction time	
Pot life at 20 °C (68 °F)	15 minutes
Rain proof after @ 20 °C (68 °F)	30 minutes
Full cured at 20 °C (68 °F)	2 hours

Pot life is dependent on ambient temperatures and will be reduced at higher temperatures. Minimum set times are approximate and may vary. Actual set times and curing times should be established on site, based on actual site conditions.

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



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PACKAGING

Specifications	ALSAN CIVIL Z71
Physical state	Liquid
Colour	Clear
Packaging	17 kg (17.53 L) and 194 kg (200 L)

(All values are nominal)

PROPERTIES

Property	Standard	ALSAN CIVIL Z71
Density at 20 °C (68 °F)	-	0.97 g/ml
Viscosity at 25 °C (77 °F)	-	15 cP
Bond strength	ASTM D1583	380 psi / 2.62 MPa
Compressive Strength	ASTM D695	14723 psi / 101.5 MPa
Flash point	ASTM D1310, D92	16.5 °C/ 61°F
Flexural Strength	ASTM D790	5528 psi / 38.1 MPa
Shore A Hardness	ASTM D2240	98
Shore D Hardness	ASTM D2240	76
Slant shear bond strength	ASTM D882	4573 psi / 31.5 MPa
VOC	ASTM D2369 method E	2.1%
Elongation at break	ASTM D638	3%
Tensile strength	ASTM D638	3809 psi / 26.3 MPa
Water absorption, 24h	ASTM D570	0.65%

(All values are nominal)

CLEANING

Tools must be cleaned with ALSAN RS CLEANER.

LIMITATIONS

ALSAN CIVIL Z71 is flammable. It must be stored away from sunlight and flames. Keep away from sources of ignition during its use. Never smoke near the product. After application, wait until volatile vapours have dissipated before approaching the product with any flame.



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STORAGE AND HANDLING

Always store the product indoors on pallets in a well-ventilated environment, at temperatures ranging from 0°C to 25°C, away from heat, open flames, ignition sources, direct sunlight, and oxidizing agents. If storing the product temporarily outside for a very short period of time, cover it with a reflective tarp that allows for air circulation. The shelf life is approximately 12 months from the date of shipment when properly stored in its original container.

For more information, see the instructions on the container label and the relevant Material Safety Data Sheet (F.D.S.).



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