

ALSAN EP CAP

TECHNICAL DATA SHEET

ANZ-TDS-19 ALSAN EP CAP



ACCESSORY
PRODUCTS

APPLICATIONS

FOUNDATIONS

TUNNELS

UNDERGROUND STRUCTURES

DESCRIPTION

ALSAN EP CAP is a two-component, high performance, pre filled epoxy grout designed for general heavy duty civil engineering applications and for encapsulating pile tops.

ALSAN EP CAP is also used in void-filling applications in the construction industry. With exceptional resistance to aggressive chemicals such as acids, alkalis and sea water.

ALSAN EP CAP is an excellent choice for various civil engineering and industrial grouting applications.

Safe and easy to use

High tensile and compressive strength

High chemical resistance

Suitable for underwater application

Great adhesion to a variety of substrates

INSTALLATION PROCEDURE

SUBSTRATE:

- Clean the surface and remove any dust, unsound material, plaster, oil, paint, grease, corrosion deposits or algae. Roughen the surface and remove any laitance and expose aggregate by light scabbling or grit-blasting.
- Oil and grease deposits should be removed by steam cleaning, detergent scrubbing or the use of proprietary degreaser
- All residual ponding water must be removed; the substrate may be moist but not wet
- All anchor bolt holes must be free from water and debris prior to placing of ALSAN EP CAP
- Steel surfaces such as reinforcement bars should be grit blasted or scabbled to remove any corrosion

MIXING:

- The mix ratio is 4:1 by volume, 4 parts Part A and 1 part Part B by volume
- Any steel reinforcement and formwork should be prepared, cut to size and shape and made ready for assembly before mixing commences. Care should be taken to ensure that ALSAN EP CAP is thoroughly mixed.
- The hardener and base components should be stirred separately before mixing to disperse any settlement
- The entire contents of the hardener (Part B) tin should then be poured into the base (Part A) tin and the two materials thoroughly mixed using a suitable slow speed drill and high shear mixing paddle
- Mix for 2 minutes until fully uniform colour is obtained, the sides of the tin should be scraped, mixing should continue for a further 2 minutes. To facilitate mixing and application at temperatures below 10°C, the separate components should be warmed in hot water up to a maximum temperature of 25°C before beginning to mix.
- If heated to 25°C, the subsequent mixed material will need to be used more speedily as the pot life will be reduced
- Alternatively, the material should be stored in an environment controlled to 20°C and only removed immediately before use
Do not attempt to rework or re-temper any partially set product. Liquid epoxy grout will be exotherm and set prematurely if not used within the pot life.

APPLICATION:

- Prior to pouring, ensure that the formwork is tightly sealed and rigid enough to prevent loss of material during application. Seal around form-work with a tight tape or other mortar material to avoid loss of product during curing of ALSAN EP CAP.
- Use an approved form release agent for internal lining of the formwork prior to pouring ALSAN EP CAP to avoid damage of material while removing the formwork.
- Immediately after the mixing procedure is completed, pour ALSAN EP CAP into the formwork. Pour slowly from the lowest point near the substrate to the specified thickness. Do not pour from high point to avoid creation of air bubbles. No vibration is required.
- After pouring, finish with a trowel or brush and allow to cure.
- Fillers may be added to produce a trowellable high mortar or a pourable flowable grout for deep pour applications.

CLEANING:

Clean up uncured material and equipment immediately after use using Xylene. Do not use solvent on skin. Cured ALSAN EP CAP is difficult to remove via chemical means and mechanical means may be necessary.

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



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PACKAGING

SPECIFICATIONS	ALSAN EP CAP
Appearance	Part A: White / Part B: Black / Grey when mixed
Coverage	1 l/m ² at 1 mm thick
Mix ratio	4:1 (Part A:B) by volume
Packaging	15 l (11.9 l Part A & 3.1 l Part B)
Kits per pallet	16

PROPERTIES

PROPERTIES	ALSAN EP CAP
Solid Content	100%
Chemical Resistance	Very good
Heat Distortion Temp	80°C
Pot Life	25 – 30 min @ 25°C
Compressive Strength	119 MPa
Flexural Strength	30 MPa approx.
Modulus of Elasticity	14 GPa
Hardness	>80 shore D
Service Temp	-10°C to +65°C
Min application temperature	5°C
Max. application temp.	35°C
Flammability	Non flammable
Viscosity	Flowable, pourable
Tensile bond strength (indirect tensile)	15 MPa approx.
Tensile strength (flexural)	30 MPa approx.
Slant shear bond strength	40 MPa (substrate failure)
Tack free time	50 mins at 25°C
Water absorption	<0.2% (10 days at 25°C)



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NOTE : All products manufactured by SOPREMA Inc. comply with the description and properties indicated in the technical data sheet that was current at the date of manufacture.

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IMPORTANT NOTES

- ALSAN EP CAP when mixed in large volumes, greater than 10 litres is highly likely to cure faster reducing the pot life of the mixed material in the tin
- Low temperature working: the minimum application temperature is 5°C. In temperatures below 10°C, the separate components should be heated in warm water (up to 25°C) or stored in a temperature controlled environment for 12 hours before use. These measures will facilitate mixing and application. Normal precautions for winter working with epoxy materials should be adopted.
- At ambient temperatures above 30°C, the material should be stored in the shade or in an airconditioned environment 12 hours before use
- DO NOT dilute ALSAN EP CAP with solvents as this will severely affect the ultimate performance of the product

GUIDELINES

PROPERTIES	ALSAN EP CAP USE GUIDE			
ALSAN EP CAP Part A+B mixe (l)	1	1	1	1
Weight of filler (kg)	1.5	2.5	3	4.5
Resin with fillers (l)	2	2.5	3	4
Grout consistency	Very fluid	Fluid	Pourable	Stiff paste
Compressive Strength at 7 days (MPa)	80	75	70	70
Pot life at 20°C (minutes)	35-45	45-50	55-65	55-65

SAFETY & FIRST AID

Avoid contact with skin and eyes and avoid breathing the vapors. Store under cover, out of direct sunlight and in a well ventilated area. If poisoning occurs contact a doctor or Poisons Information Centre. If swallowed, DO NOT induce vomiting. Give a glass of water. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor. Refer to Material Safety Data Sheet for further information.

STORAGE AND HANDLING

Shelf life of ALSAN EP M is 2 years, when properly stored in original unopened containers. Containers is stored between 5°C and 35°C in an unopened container. Must be stored above 5°C.

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this publication is based on the present state of our best knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by Commonwealth or State Legislation. The owner, their representative and/or the contractor are responsible for checking the suitability of products for their intended use.



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