



WATERPROOFING

GROUTS

M I D D L E E A S T

ALSAN CAP-E

VOID FILLER & ENCAPSULATION EPOXY GROUT

TECHNICAL DATA SHEET 170729SME1E

DESCRIPTION

ALSAN CAP-E is a three-component, high performance fluid epoxy resin designed general heavy duty civil engineering applications and for encapsulating pile tops in the range from 5 to 50 mm. ALSAN CAP-E is manufactured from a combined blend of epoxy resins with select aggregates all delivering a durable flowable & homogenous grout when mixed together. ALSAN CAP-E 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 CAP-E is an excellent choice for various civil engineering and industrial grouting applications.

Moisture Tolerant

High Mechanical Strength

Waterproofing, Watertight, Low Permeability

Compatible with SOPREMA's Thermofusible & Self-Adhering Membranes

Corrosion & Chemicals Resistant

Self-Leveling, Self-Compacting

USER APPLICATIONS

ALSAN CAP-E can be used in various application mainly for:

- Top of the pile cap encapsulation
- Void-filling applications
- Large span pours in general structural repairs
- Where dynamic loads are expected
- General sloping applications not exceeding 1%.

INSTALLATION GUIDELINES

- **MIXING:** Mark the three components (Base, Hardener & Filling Aggregates) are in good packing condition ready prior to start.
- Use a slow-speed mechanical mixer with an approved mixing paddle for small volume (300 rpm). For large volume use a forced action mixer.
- Start with pouring the base component into a clean container.
- Mix slowly for 2 minutes then add the hardener and mix for another 3 minutes.
- **POURING:** Prior to pouring ensure that the formwork is tightly sealed and rigid enough to prevent loss of material during application. Seal around formwork with a tight tape or other mortar material to avoid loss of product or water during curing of ALSAN CAP-E.
- Use an approved form-release agent for internal lining of the form work prior to pouring ALSAN CAP-E to avoid damage of material while removing the formwork.
- Immediately after the mixing procedure of the 3 components is completed, pour ALSAN CAP-E 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.
- **FINISHING:** After pouring finish with a trowel or brush and allow to cure.

RESTRICTIONS

- Failure to use a form-release-agent shall lead to damage of material while removing formwork.
- Mix a volume that could only be used within 20 minutes.
- For cold weather application, refer to ACI 306R Cold Weather Concreting. For hot weather application, refer to ACI 305R Hot Weather Concreting.
- Leave formwork in place for minimum 24 hours.

SUSTAINABILITY, HEALTH & ENVIRONMENT

All our activities & growth target sustainable development to minimize the impact on the environment. ALSAN CAP-E does not contain any substances that might be detrimental to health after complete curing or to the environment and complies with generally accepted health standards. Please refer to the product's Safety Data Sheet for more information.

SOPREMA may modify the composition and/or utilization of its products without prior notice.
Manufactured by SOPREMA at any of SOPREMA's Plants Worldwide or in UAE Under Licence by SOPREMA



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PACKAGING

SUPPLY DATA	ALSAN CAP-E
Packaging	20 L packs (3 components)
Base Component	4.92 kg
Hardener	2.1 kg
Filler	33.78 kg
Yield	20 kg

(All values are nominal)

TECHNICAL PROPERTIES

PROPERTIES	METHOD (BS)	NOMINAL VALUE	METHOD (ASTM)	NOMINAL VALUE
Compressive Strength 1 Day	BS 6319	61 N/mm ²	ASTM C579	59.4 N/mm ²
Compressive Strength 7 days	BS 6319	84.5 N/mm ²	ASTM C579	82.7 N/mm ²
Flexural Strength 7 days	BS 6319	19.7 N/mm ²	ASTM C580	20.5 N/mm ²
Tensile Strength 7 days	BS 6319	15.3 N/mm ²	ASTM C307	14.2 N/mm ²
Mixed Density	ASTM D1475			2.01
Volatile Organic Content (VOC Content)	USEPA24			36.5 g/L
Impact Resistance Joules	ASTM D2794			> 20
Bond Strength	ASTM D4541			Failure in Concrete

*(All values are nominal)**All Values are subject to variation tolerance not exceeding 15%*

QUALITY CONTROL

ALSAN CAP-E is manufactured in ISO-9001 certified SOPREMA factories which are audited by third-party organizations such as Underwriters Laboratories (UL) and FM Global. The system membranes are manufactured to meet SOPREMA's Quality Management Manual.

STORAGE AND HANDLING

ALSAN CAP-E should be stored in a properly ventilated and covered place to avoid damage of material. ALSAN CAP-E has a shelf life of 18 months.

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