

Product Data Sheet
Edition 11.2022
Identification No. DC-29



Prokem
SPECIALITY CHEMICALS

Kemsport SW

High strength fiber polymer modified non-shrink squash court plaster System

Description

Kemsport SW is a two component, non-shrink polymer modified silica fume containing, fiber reinforced ready mix plaster mortar system designed for front & side walls of squash court for vertical and overhead surfaces of concrete and masonry.

Where to use

- **Kemsport SW** is used for front & side walls of squash courts

Advantages

- Easy to use.
- Excellent weathering resistance.
- Rust inhibiting properties since it does not contain calcium chloride.
- Excellent adhesion to concrete, steel and masonry.
- Breathable.
- Economic since it can be applied without the need of expensive form work.
- High resistance to impact.

Properties

Physical Properties:

Coefficient of thermal expansion	$12 \times 10^{-6} / ^\circ\text{C}$
Setting time Initial	60 min.
Final	240 min.
Density	$2.0 \pm 0.3 \text{ gm/cm}^3$

Mechanical Properties::

Compressive strength	45 N/mm ²
Flexural strength	12 N/mm ²
E- Modules	20000 N/mm ²
Adhesion strength to concrete	3 N/mm ²
Adhesion strength to plain bars	5N/mm ²
Adhesion strength to deformed bars	10.4 N/mm ²

How to use

Surface preparation:

- Remove all damaged and contaminated concrete to reach the sound core.
- Remove additional concrete surrounding and along the reinforcement bars.
- Formation of clean-cut edges to avoid feather edges.
- Masonry and brick walls should be thoroughly cleaned and wetted before plastering.

Wall Priming

Clean and dampen the concrete surface with water, and mix mechanically

Kembond SW powder (25 kg) with potable water (6.5 - 7 Lr.) and use it as a bonding agent slush coat to be apply by brush or roller (thickness 3 mm) immediately prior to the application of the plaster. If the slurry coat dries out a second coat should be applied.

Mixing:

Mix **Kemsport SW** with potable water. Mix with mechanical stirrer until a rich, creamy consistency is achieved.

Mixing ratio: 5 - 5.5 liters per sack (25 kg.)

Application:

- The sequence of application is sidewalls (One day), Front and back walls (one day).
- The material is applied in a single coat (9 mm thick) with a stainless steel trowel.
- The plaster should be applied within 15 minutes of applying **Kembond SW**.
- After the whole wall has been completed, it should be leveled with a straight edge and left to set. The entire wall must be completed in one session and it cannot be pieced up the next day as conventional plaster.
- A dampened sponge float can be used before the final trowelling to pass over the surface to bring up some fat. Once it is completed and around 5 minutes later a dampened steel trowel should be used to close it up and leave it flat.

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Curing:

- Mist spraying for 5 days, ensure slow cure.
- For hot condition, completely cover the walls with PE sheets to retain moisture.
- Curing membranes could be used.

Theoretical Coverage:

Kembond SW 6 Kg/m²/ 3 mm thick.
Kemsport SW 18Kg/m²/ 9 mm thick.

Packaging:

25 kg. Sack (Kembond SW) &
25 Kg. Sack (Kemsport SW)

Shelf Life & Storage

Kemsport SW System has a shelf life of 12 months if maintained in a dry storage conditions (unopened sacks).

Precautions

- Use only potable water.
- Do not add extra water above stated quantities.
- Kemsport SW** should not be applied to substrates that is exposed to running water or which are permanently wet.
- Application should not be carried out when ambient temperature is below 5°C.
- The system should not be applied in thickness less than 12 mm.

Health and Safety

- Use goggles, gloves and a breathing mask when applying.
- Apply forced ventilation in confined spaces.
- Remove splashes from skin with hand cleaner or soap and water.
- Eye splashes to be washed with plenty of water.
- If ingested seek medical advice.
- Do not breath or inhale mist.
- When spraying, wear air mask.

Additional Information

PROKEM provides the construction industry with a comprehensive range of construction chemicals and specialty products answering the queries of modern engineers for trouble free durable structure.

PROKEM designs tailor made products should there be critical application that requires specific properties rather than our main range. For our customer's satisfaction, **PROKEM** reserves the right to change the properties of its products.

All orders are accepted subject to our current term of sale & delivery.

Users must always refer to the most recent issue of the local product data sheet for the product concerned, copies of which will be supplied on request.

PROKEM extends technical services to include after sales support to assist users in a proper handling of our products.