

Elastomeric, Single Component, Water-Based Waterproofing Membrane

## DESCRIPTION

FLEXDEK 2600 is a high performance, liquid-applied waterproofing membrane of styrene acrylic polymer. It consists of a very elastic polymer with the inherent flexibility that allows the membrane to accommodate movements in the substrate. It works as a seamless membrane that performs and adapt to any construction requirements in varied climatic conditions.

FLEXDEK 2600 is especially formulated to seal, waterproof and enhances look of exterior surfaces & roofs. It seals cracks and joints in old or new roofs /walls and simultaneously leaving a seamless finish to the roof surface. It has good adhesion with different surfaces

## FEATURES & ADVANTAGE

**WATERPROOFING** - Prevents further ingress of water in old and new concrete.

**BREATHABLE** – Allow vapour transmission to release moisture.

**DURABILITY** - Reinforced with fibre glass matt increases film tensile strength and wear resistance.

**FLEXIBLE** - Polymeric characteristics enable bridging of hairline cracks and accommodate minor joint movements.

**WEATHER RESISTANT** - Excellent resistance to ultraviolet degradation.

**TRAFFICABLE** - Able to withstand moderate foot traffic.

**COST EFFECTIVE** - Repairs damaged concrete by direct application without additional re-construction.

**EASE OF APPLICATION** - Brush, roller or airless spray applied. Solvent Free - Operators do not need extra respiratory protection.

**RECOATING** – After 5 – 7 years, recoating can be done to the surface with a refresher or another finish coat.

**EASE OF MAINTENANCE** – Fungus & mold are free on apply surfaces

## APPLICATION AREAS

- Fire Walls
- Concrete slab deck and roofs
- New & old roofs / walls
- Car porch roofs
- Fibre cement boards

## COVERAGE

### Specification for walls and firewalls

The system consists of the following sequence;

- 1 coat of Futura Sealer coat Primer (0.1litre/m<sup>2</sup>)
- 1 coat of FLEXDEK2600 (0.4 kg/m<sup>2</sup>)
- 1 coat of FLEXDEK 2600(0.4 kg/m<sup>2</sup>)

The finished coating will approximately provide 0.4mm film thickness.

### Specification for concrete and roofs

The system consists of the following sequence;

- 1 coat of Futura Sealer coat Primer (0.1litre/m<sup>2</sup>)
- 1 coat of FLEXDEK 2600 (0.4 kg/m<sup>2</sup>)
- 1 layer of Fibre mesh
- 1 coat of FLEXDEK 2600(0.4 kg/m<sup>2</sup>)
- Final 1 coat of FLEXDEK 2600 (0.4 kg/m<sup>2</sup>)

The finished coating will approximately provide 1mm film thickness.

NOTE:

\* 4-6 hours is needed for the drying of each coat of FLEXDEK 2600 before

the application of the next coat.

\* Coverage and Thickness is theoretical and may vary due to different substrates

## PROPERTIES

PARAMETERS	PROPERTIES
Colour	White, Grey
Density	1.26kg/litre
Adhesion to Substrate (N/mm <sup>2</sup> ) i) Applied on concrete with fibreglass ii) Applied on concrete without fibreglass	1.1 (ASTM D4541 : 2009) >6.0Mpa (Cohesive B) ASTM D4541 > 6.0Mpa (cohesive B) ASTM D4541
Water Vapour Transmission	20g/m <sup>2</sup> (ASTM E96:2005)
Maximum Tensile Strength	>4.0 N/mm <sup>2</sup> ) ( ASTM D412 – 2006a)
Elongation At Break	>400 % (ASTM D412 – 2006a)
Crack Bridging (mm)	>2 No cracks was observed (ASTM C836:2006)
Weather resistance	UV Resistant (ASTM G 53)
Solid content %	> 68% (ASTM 2369)
Durometer Hardness (Shore A)	50 (ASTM D2240-05)

## APPLICATION METHODOLOGY

### SURFACE PREPARATION

- Ensure all surfaces are clean and free from dirt, oil, grease, Efflorescence, fungi growth, loose particles and laitance. As for horizontal surfaces must be laid to fall as FLEXDEK 2600 will be finishing product to avoid ponding on surfaces.
- Hack off honeycombs to expose concrete. Remove all chipped and loose particles and clean surface before repairing.
- Lastly, repair all hacked off areas with CCPL Injection Grout / TECHFLOOR mortar.
- Ensure new concrete is at least 14 days old before application of FLEXDEK 2600.

### PRIMER

Apply Futura Sealer coat Primer to unpainted clean surfaces for better adhesion.

For painted surfaces, remove all flakes of paint before applying Futura Sealer coat Primer.

### Application for 1 coat Futura Sealer coat Primer + 2 coats FLEXDEK 2600

- Thoroughly clean concrete surfaces free of oil, grease, paint and loose dust, mud and laitance and hose down concrete surfaces thoroughly.
- FLEXDEK 2600 shall be applied in minimum 1 coat Futura Sealer coat Primer + 2 Coats FLEXDEK 2600 for wall surface.
- The Futura Sealer coat Primer coat shall be applied at the rate 0.1litre/m<sup>2</sup> with a proper roller ensuring that all surface of the concrete surface is covered.

- When the primer coat is dry and can accept foot traffic without lifting up of material when step on. This would at least be 2 to 3 hours after the primer coat application.
- Over the Primer coat, roll a first coat of FLEXDEK 2600 at the rate of 0.4 kg/m<sup>2</sup> on top of the primer coat.
- Wait for the first coat FLEXDEK 2600 to be dry at least 3 to 4 hours later.
- Then applied the second coat (top coat) of FLEXDEK 2600 at the rate of 0.4 kg/m<sup>2</sup> per coat and then wait for the FLEXDEK 2600 dry.

#### **Application for 1 coat Futura Sealer coat Primer + 3 coats FLEXDEK 2600**

- Thoroughly clean concrete surfaces free of oil, grease, paint and loose dust, mud and laitance and hose down concrete surfaces thoroughly. FLEXDEK 2600 can be applied by using brush or roller over the entire surfaces.
- The first coat Futura Sealer coat Primer shall be applied at the rate 0.1litre/m<sup>2</sup> with a proper roller ensuring that all surface of the concrete surface is covered.
- Then applied the first coat of FLEXDEK 2600 at the rate of 0.4 kg/m<sup>2</sup> per coat after Futura Sealer coat Primer gets dry for at least 3 hours minimum before the application of the first coat of FLEXDEK 2600.
- Wait for the first coat FLEXDEK 2600 to be dry at least over night or 3 hours minimum and then only applied the second coat of FLEXDEK 2600 at the rate of 0.4 kg/m<sup>2</sup> per coat.
- Finally apply the final coat (top coat) of FLEXDEK 2600 is to be applied at the rate of 0.4 kg/m<sup>2</sup> per coat and leaving it to cure for at least 3 hours.

#### **Application with Fiber Mesh**

Fibre Mesh is a non-woven fibre mesh fabric used as reinforcement in the application of liquid waterproofing where substantial movement is anticipated. It is designed so as to allow FLEXDEK 2600 to pass through, thereby forming a compact reinforced sandwich membrane upon application problem between the top and bottom layers should a high force be applied on it.

- Where a layer of polyester fiber mesh is used as reinforcement for better tensile strength of membrane. It shall be laid onto the 1st coat of FLEXDEK 2600 before it is totally dry to enable it to adhere onto the 1st coat and leave to dry. The 2nd coat FLEXDEK 2600 should be applied when it is dry.
- For better tensile strength use in conjunction with CCPL Fiber Mesh.

#### **PRIMER**

Apply Futura Sealer coat Primer to unpainted clean surfaces for better adhesion.

For painted surfaces, remove all flakes of paint before applying Futura Sealer coat Primer.

#### **Application with Reinforce Fiber Mesh**

- Thoroughly clean concrete surfaces free of oil, grease, paint and loose dust, mud and laitance and hose down concrete surfaces thoroughly. FLEXDEK 2600 can be applied by using brush or roller over the entire surfaces.
- The Futura Sealer coat Primer shall be applied at the rate 0.1litre/m<sup>2</sup> with a proper roller ensuring that all surfaces of the concrete surface is covered. Then wait for 2 hours for it to dry.
- Then applied the first coat of FLEXDEK 2600 at the rate of 0.4 kg/m<sup>2</sup> per coat. While the first coat FLEXDEK 2600 still wet, lay the Polyester Fiber Mesh over it and ensuring it all flatten. Then wait for the first coat FLEXDEK 2600 to dry atleast 3 hours and apply the second coat of FLEXDEK 2600 at 0.4 kg/m<sup>2</sup>. It is important roll the second coat with sufficient material to cover the Fiber Mesh.
- When the third coat FLEXDEK 2600 is dry, then apply the final coat (top coat) of FLEXDEK 2600 at the rate 0.4 kg/m<sup>2</sup> and ensuring all

the Fiber Mesh are covered and no holes appears. Leaving it to cure for at least 3 hours.

#### **MIXING**

No mixing is required.

#### **CURING**

Allow 24 hours for initial curing. A final curing time of 48 hours is adequate at normal working temperatures. Ensure curing is complete before laying thermal insulation boards, mechanical protect and other coverings.

Low Temperatures and high atmospheric humidity will slow down the curing rate, and vice versa.

#### **RECOATING**

For exposed applications, Recoating is required after 5-7 years, the membrane surface can simply be cleaned and re-coated with a refresher or single top coat.

#### **CLEANING EQUIPMENT**

Clean equipment with soapy water followed by rinsing with clean water. Flush mineral spirits through the spray equipment to prevent rust.

#### **PACKAGING**

- 20Kg
  - Colours – White, Grey
- (Special colour are available through request to CCPL office.)

#### **STORAGE & SHELF LIFE**

FLEXDEK 2600 has a shelf life of 12 months. Keep containers tightly closed and away from ignition sources. Do not expose it to direct sunlight or leave it too long in the open air.

#### **PRECAUTION**

Do not apply FLEXDEK 2600 if weather is imminent before the coat is dry thoroughly, or when temperature is expected to drop below 5°C.

Newly applied FLEXDEK 2600 should be protected from rain, extreme heat and moisture during the first few hours. Please contact Choksey Chemicals P Ltd for further technical assistance.

#### **HEALTH, SAFETY & CLEANING**

It is recommended that the applicator wears a safety goggles and gloves. Avoid prolonged contact with exposed skin, and keep away from mouth and eyes. In case of skin contact, wash areas with soap and water. If contact with eyes, rinse thoroughly with clean water. Seek medical attention immediately if irritation persists