

## TECHNICAL DATA SHEET

### CLEVER SIL

#### Water based Polyurethane Membrane

#### PRODUCT DESCRIPTION:

**CLEVER SIL** is a one component, viscous, ALIPHATIC polyurethane dispersion, which cures with the humidity in the atmosphere to produce a highly elastic membrane with strong adhesion to many types of surfaces, which result in excellent mechanical, chemical, thermal, UV, and natural element resistance properties. It can be applied without topcoat in foot trafficable areas. Two coats are required.

#### CUSTOMER BENEFITS

- Thick pasty liquid, single pack, easy to use
- Excellent curing
- UV resistant, superb elongation, excellent in tensile
- Anti-fracture, no blistering
- No reinforcement required
- No tar, no bitumen, non-toxic

#### RECOMMENDED FOR

- Ideal for waterproofing of facades
- Ideal for waterproofing of concrete roofs including walkways and planter boxes
- For internal and external use

#### TECHNICAL DATA

Color	:	Gray
Consistency	:	Thick Pasty Liquid
Solids Content	:	60-70%
Specific Gravity	:	1.3 – 1.4 K/L
Cure Time**	:	4-8 hours
Touch Dry @ 30	:	1 hour 30 mins
Percent Elongation:	:	>500%
Shelf Life	:	2 years from mixing date

#### INSTRUCTIONS FOR USE

##### SUBSTRATES

All surfaces must be dry and free from oil, dust, grease and other contaminants. Substrate must be clean and sound prior to waterproofing.

In using **CLEVER SIL**, the substrate shall be visible dry.

##### SURFACE PREPARATION

###### Concrete:

All new concrete slabs must be allowed to cure for at least 6 weeks.

Old concrete must be cleaned with a strong commercial grade detergent or degreaser, then thoroughly wash off all residue with clean water. Allow the surface to dry for at least 24 hours.

###### Render:

New rendered surfaces must be allowed to cure for at least 7 days.

###### Metal Surfaces:

All metal surfaces must be totally free of rust. Prime metal surfaces with etching primer.

###### Cracks:

Hairline cracks up to 1mm wide, which experience no movement, may be duly filled up **CLEVER SIL** before applying another layer over the area to be waterproofed.

###### Drain Application:

Treat the inside and around the drain with separate layer of **CLEVER SIL** before proceeding with the actual application of the whole surface.

Do not allow the product to freeze.

Do not apply if the temperature is in excess of 45°C or less than 5°C.

Delay external applications when inclement weather is imminent.

Do not thin liquid; it is supplied ready for use.

**Important Note:**  
The information contained in this leaflet is published to the best of our knowledge and is supported by current available data. Hence, subject to the care and method of application, deviations (from published values) in performance may occur. Our guarantee is therefore limited to the quantity of the supplied material.

## TECHNICAL DATA SHEET

### **CLEVER SIL**

#### ***Water based Polyurethane Membrane***

#### **APPLICATION**

Spread the **CLEVER SIL** onto the substrate using a lambswool roller or brush.

Apply in a thin continuous layer over the area to be waterproofed.

Allow 1 to 2 hours in between each coat depending on thickness and atmospheric condition.

Recommended coverage: 1.3 kgs/m<sup>2</sup> @1mm thick in minimum two coats.

#### **COVERAGE**

One pail covers approximately 15m<sup>2</sup>@1mm thick depending upon site conditions.

#### **CAUTION**

Do not use where negative hydrostatic pressure is evident (i.e. rising damp) as it affects the bond of **CLEVER SIL**

Surfaces must not allow water to stagnate or form a pond

Do not mix sand and admixtures to **CLEVER SIL**

#### **PACKAGING**

20kg pail

#### **SHELF LIFE**

Up to 12 months in unopened containers, stored in a cool dry elevated place

#### **CLEAN UP**

Tools and excess **CLEVER SIL** can be cleaned up with water while it is still wet.

#### **HEALTH AND SAFETY**

In case of eye splashes or excessive skin contact, thoroughly flush with clean water. If ill effects occur, seek medical attention immediately.

#### **FIRE**

**CLEVER SIL** is a water based and non-flammable.

**Important Note:**  
*The information contained in this leaflet is published to the best of our knowledge and is supported by current available data. Hence, subject to the care and method of application, deviations (from published values) in performance may occur. Our guarantee is therefore limited to the quantity of the supplied material.*