

# MonniTop CF

Two Component Elastomeric, Tough, Polyurethane Membrane

## Product Description

MONNITOP CF is a two component polyurethane waterproofing membrane. It has good characteristics of impermeability, elasticity, crack bridging and resistance against abrasion and chemicals.

After curing, the product transforms into an elastic, continuous, membrane suitable for use in traffic coating systems to provide crack bridging and waterproofing capability.

MONNITOP CF adheres perfectly to varied supports as concrete, asbestos cement, wood, metallic surfaces, etc.

## Uses

MONNITOP CF is used as a durable elastic waterproofing membrane in polyurethane coating systems in such areas:

- ▶ Car parks
- ▶ Floors in factories
- ▶ Warehouses
- ▶ Laboratories
- ▶ Loading decks ramps
- ▶ Showers
- ▶ Kitchens
- ▶ Dairy and brewery or any area where long term maintenance free protection is required

## Advantages

- ▶ Tough and durable
- ▶ Very good abrasion and chemical resistance
- ▶ Good adhesion to most substrates
- ▶ Excellent workability
- ▶ Easy application
- ▶ Economical
- ▶ Free of pitch or bitumen modification
- ▶ Superior wear and weather ability for parking deck and contaminating areas

## Usage Instructions

### Surface Preparation

The surface of the concrete to be repaired shall be sound, clean and uncontaminated.

This preparation shall be such as to leave a sound exposed concrete surface free from dust, loose particles and any deleterious matter. If the concrete surface is defective or has laitance, it must be cut back to a sound base. Excess laitance deposits are best removed by light mechanical scabbling, grinding or grit/captive blasting followed by vacuum cleaning to remove dust debris.

Cracks shall be treated with MonniFinish EF, a solvent free epoxy resin repair mortar. Expansion joints shall be repaired using MonniMort HS, a High strength solvent free epoxy mortar.

Concrete floor should be totally dry. Protect the substrate from any danger of humidity rising.

New concrete or cementitious surfaces should be allowed to cure and have moisture content not exceeding 5%. Old or existing floor should be refurbished mechanically to ensure clear sound substrate.

### Priming

Highly porous concrete or concrete containing micro-silica must be treated with MONNIPRIME PU, a high performance Polyurethane MONNIPRIME PU shall be used as a MONNIPRIME coat for polyurethane based car park deck systems.

The MONNIPRIME should be applied by brush or roller on to the cleaned surface area (particularly hidden surfaces) at a rate of 5-6 m<sup>2</sup>/L.

The MONNIPRIME should be left to achieve a tack-free condition for 6-8 hours before applying the top coat. A second coat of MONNIPRIME may be required if the substrate is excessively porous.

Metal surface must be perfectly cleaned up to white metal by sand blasting, and then treated with one coat of MONNIPRIME PU before the oxidation process begins again.

### Mixing

MONNITOP CF is supplied in two pre-weighed packs (Component A – Base and Component B – Hardener) which are ready for immediate in-situ use. Stir in both components before use.

Add the hardener (Part B) to the Base (Part A) container and mix for 20-30 seconds using a heavy duty, slow speed drill fitted with a mixing paddle.

Transfer the mixed material to another pail and again remix for 30 seconds.

### Application

Pour MONNITOP CF onto the primed surface at a rate minimum of 2.5 m<sup>2</sup>/Liter and spread evenly with a notched trowel. Continuous spiking with a spiked roller should be done to remove all entrapped air. Spiking adjacent layers is recommended at 50% overlaps. Spiking shall stop as soon as the coating starts to set.

While the coating is still wet, broadcast MONNITOP QG 2 at approximately 0.6-2.0 kg/m<sup>2</sup> (depending on the wearing coat thickness). After 24 hours cure, excess aggregate shall be brushed away.

### Cleaning

Tools and equipment should be cleaned with Monneli Solvent 10 immediately after use. Harden material should be removed mechanically. Spillages should be absorbed with sand or sawdust and disposed of in accordance with local regulations.

### Recommendations

- ▶ The curing time of MONNITOP CF is influenced by the ambient, material and ambient temperatures.
- ▶ At high temperatures, chemical reactions are speeding up thus shortens the pot life, open time and the curing times.
- ▶ MONNITOP CF should not be applied on surfaces with a risk of rising dampness.
- ▶ Don't mix more material than can be used within the pot life of mixture.

### Technical Data

Category	Typical Values
Appearance	Semi - gloss Grey, light grey, red, green, blue (further colors are available on request)
Color	request
Density at 25°C	1.55 kg/L
Pot life at 25°C	45 minutes
Elongation at break	> 70%
Tensile Strength (ASTM D412)	6 N / mm <sup>2</sup>
Shore A hardness	60
Initial hardening (dry & touch)	5 hours
Complete hardening	7 days
Application temperature	+5°C to +35°C
Service resistance	-5°C to +80°C

All values are subject to 5-10 % tolerance



## Consumption

2.5 m<sup>2</sup>/Liter at 400 microns DFT

## Packaging &

MONNITOP CF is available in 4 and 15 Liter kits.

## Storage

Keep in tightly closed containers and in sheltered and dry place with a temperature between +5°C and +35°C. Shelf life is 12 months from date of production if stored properly.

## Health & Safety

During application, wear appropriate protective clothing, goggles, gloves and respiratory equipment if necessary. In case of contact with skin, rinse with water and again wash thoroughly with soap and water. In case of contact with eyes, rinse with plenty of water and seek medical advice accordingly. If ingested, obtain medical attention immediately. Do not induce vomiting.

## Legal disclaimer

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