



## OVERVIEW

GRIPFLEX 80 is a two component acrylic Polymer modified cementitious flexible water proofing system based on selected liquid polymer and powder. GRIPFLEX 80 when mixed together forms a hard and elastic membrane which is widely used for water tightness works, protection of concrete, water proofing of masonry structures, marble and other construction materials from possible ingress of water and water borne chemicals. It gives excellent results in providing barrier for waterborne salts and chloride attacks. GRIPFLEX 80 is specially designed to use for totally submerged conditions and where joints to be sealed like pre-cast joints and construction joints.

## APPROPRIATION

- General construction water and damp proofing, basements
- For swimming pools, lift holes, spillways bathroom slabs, kitchen slabs, and other wet areas
- Water and damp-proof lining for water-retaining structures
- For waterproofing of drinking water reservoirs, both interior and exterior
- To provide protection for concrete against carbonation and chloride attack
- For coating in seawater foundation protection
- Waterproofing coating for roofs and tunnels
- Marine walkways, seawater channels, etc.

## CHARACTERISTICS

- Good adhesion to almost all surfaces
- Non toxic, so suitable for potable water
- Hard wearing and seamless
- Excellent water proof and flexible in nature
- Resistant to positive and negative pressure
- Resistant to carbon dioxide and chloride diffusion and forms an anti carbonation film
- Applicable on a day old concrete structures

## SURFACE PREPARATION:

The surface must be clean and free of oil, grease, dust and any other unwanted residual material. The surface to be treated should be thoroughly wet prior to application (no standing water, though). Spalled concrete should be cut back to sound concrete and made good with a suitable cementitious repair mortar. Conventional concrete curing compounds should be removed before application. The exception to this is when ADDCURE ACC has been used. Roofing tiles should be firmly bedded and grouted before application

## MIXING:

The material is supplied in two parts, and premeasured. On-site mixing is needed. Slowly add the powder to the liquid and mix using a slow speed drill fitted with a Suitable paddle. Do not mix more materials than that can be used within 45 minutes. The appearance of the material will be creamy consistency. Do not add water at any stage to get the material loose.

## METHOD OF APPLICATION:

**GRIPFLEX 80** can be applied by a brush or roller to form a waterproof and flexible membrane. Apply the first coat with sufficient thickness to cover the holes, cracks etc., completely at a rate of 1.2kg/m<sup>2</sup>. Once the first coat is dry apply second coat in order to achieve the required thickness at an average rate of 0.6-0.8 kg / m<sup>2</sup> per coat for minimum thickness of 750microns. Fiber reinforced mesh can be placed into the first coat when still wet and prior to the second coat application to the areas where joints are coming. For general protection it is recommended that each coat should be a minimum thickness of 1mm. For heavy 6-10mm depressions, honey combs etc. use less gauging liquid and mix to the desired consistency. Where more than one coat is found necessary to achieve the desired thickness, apply the second or subsequent coats after the previous coat has dried.

## CURING:

Curing should be done immediately after the coating has attained its final set. Ponding or the use of wet Hessian cloth is recommended.

## COVERAGE:

1.6kg/m<sup>2</sup> for 2coat for minimum thickness of 750microns.

GRIPMIX provides an extensive range of products and services for most concrete and finishing needs. Please contact the GRIPMIX for Building Construction Materials Trading LLC-Dubai for further information, samples, demonstrations and instructor services. The information presented in this leaflet is based upon laboratory research, as well as comprehensive field work and application. All products are sold subject to standard conditions of sale which are available on request. This information is based on GRIPMIX's current state of knowledge and is intended to provide general information on GRIPMIX's products and their methods of use. The potential user is recommended to determine the suitability of GRIPMIX's suggestions and products before adopting them on a commercial scale.

# GRIPFLEX 80

Acrylic Polymer modified two component  
Cementitious super flexible water-proofing system

## HEALTH & SAFETY

**GRIPFLEX 80** contains no hazardous substance. As with all construction chemical products, caution should always be exercised. Protective clothing such as gloves and goggles shall be worn whilst handling. Wearing long sleeve overall, safety shoes and face mask is recommended for maximum safety. Reseal all containers after use and ensure product is stored as instructed on the safety section of the labeling. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately. For more details, please refer to the MSDS released on each GRIPMIX product.

## PACKING & STORAGE

**GRIPFLEX 80** is available in a **25 kg kit Part A (Powder): 15 kg** (Selected cement, graded polymer, silica, and fillers) **Part B (Liquid): 10 kg** (Modified acrylic copolymers) For site installations or mass consumptions, deliveries shall be made in bulk custom-designed containers/ storage tanks. **GRIPFLEX 80** should be stored in cool, dry, and shaded warehouses. Shelf life is 12 months when stored under cover, out of direct sunlight, protected from extreme weather, and as per recommendations. In an extreme tropical climate, the product must be stored in a cooled ambiance. Excessive humidity and overexposure to UV will reduce shelf life.



## TECHNICAL DATA AND PROPERTIES

Product	GRIPFLEX 80
Standard conforms	BS: 1881 Part 5 1983(ISAT); 476 Part 6; DIN 1048:Part 5 1991 (water permeability test)
Specific Gravity	1.6
Color	Grey and White
Tensile strength	1.5N/mm <sup>2</sup>
Flexibility	1.5mm thick:30%
Elongation	>80%
Toxicity	Non Toxic, suitability with portable water conforms to BS6920 Part 1:1990
Water Penetration	At 10 bars, no penetration 2mm DFT (DIN 1048)
Chloride Ion Diffusivity	Zero penetration at 90 days
Chemical Resistance	Strong Resistance against gasoline, diesel, sodium hydroxide, CaCl <sub>2</sub> , deicing salts etc