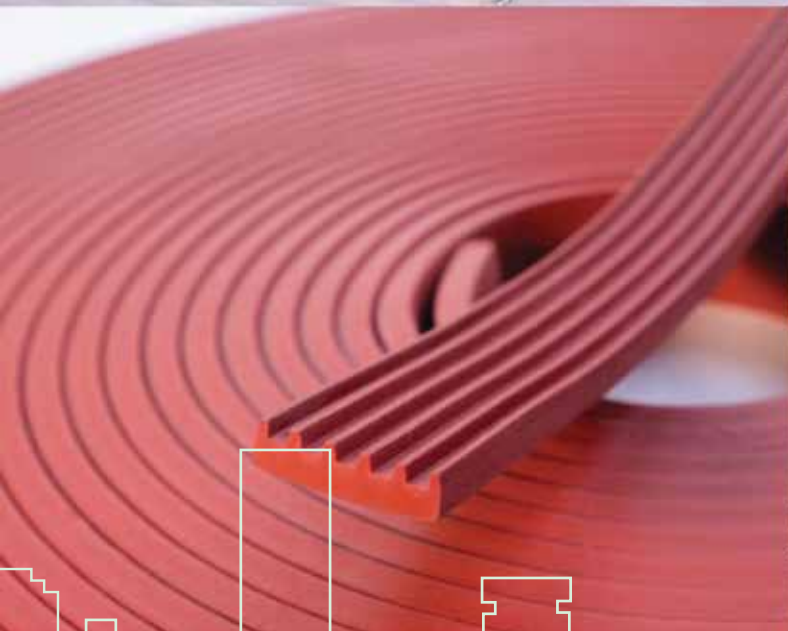
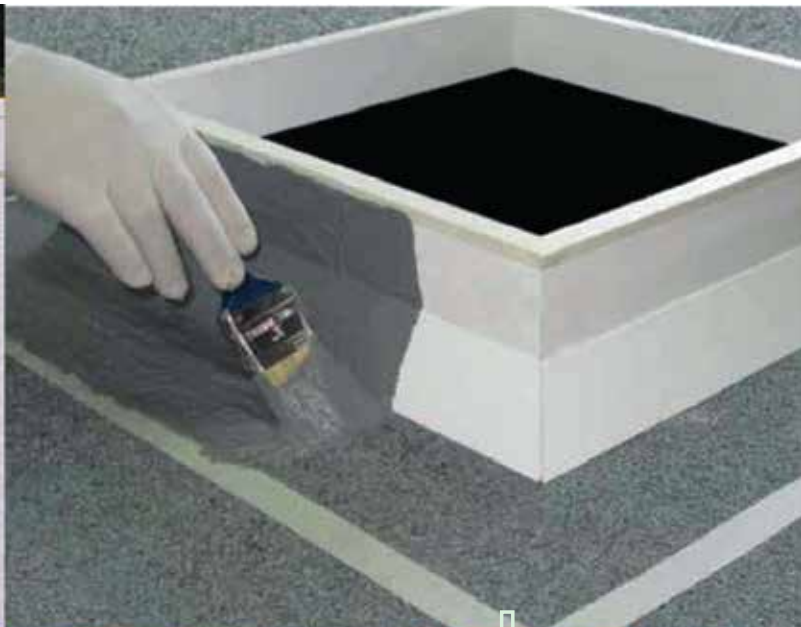


# MONNELI COLMEF

*Creating the Future*

## WATERPROOFING



... Ecobuild, live smart!

# WATERPROOFING SYSTEMS

**1**

## **LIQUID APPLIED WATERPROOFING**

CEMENTITIOUS WATERPROOFING

BITUMINOUS WATERPROOFING

POLYURETHANE WATERPROOFING

EPOXY WATERPROOFING

ACRYLIC WATERPROOFING

**2**

## **SHEET MEMBRANE WATERPROOFING**

BITUMINOUS SHEET WP MEMBRANE SYSTEM

PVC MEMBRANES

PVC WATERSTOPS

**3**

## **SPRAY APPLIED PU FOAM WATERPROOFING**



# 1

# LIQUID APPLIED WATERPROOFING



## CEMENTITIOUS WATERPROOFING

### KRETESIL

Cementitious Waterproofing Osmotic Mortar

A ready-mix, cementitious, and surface applied, waterproofing membrane consisting of Sulphate resistant cement, graded quartz and inorganic additives.

### IDROLASTIC

Elastomeric Cementitious Waterproofing Mortar

A two component mortar composed of special type of cements, bonding agents, selected fillers and special additives (component A) and water based synthetic acrylic co-polymer (component B).

### MANTOBRUSH

Elastomeric Cementitious Waterproofing Mortar

A two component, cementitious acrylic modified waterproofing coating. It is composed of special types of cements, silica sand, reactive fillers (powder), and acrylic polymer blended with chemical additives (liquid). Once mixed, it produces a workable, easy to apply, product that can be applied with brush or spatula.



## BITUMINOUS WATERPROOFING

### ASFABIT RANGE

### ASFABIT PRIME

Quality Black Bitumen Primer

A quick drying solvent based low viscosity bitumen primer. It is used as a primer coat on masonry and concrete substrates to improve the adhesion of bitumen based membranes and coatings. Low in viscosity.

### ASFABIT EM

Emulsified Thixotropic Flexible Protective Barrier to Vapor Transmission

An emulsified thixotropic bitumen protective coating. The coating dries to form a black flexible protective film. The finished film forms a tough barrier to vapor transmission.

### BITUFLEX

Elastomeric SBS Modified Liquid Applied Waterproofing Membrane

An SBS modified bituminous liquid membrane composed of elastomers, bitumen, resins and additives dissolve in solvent. It is a thixotropic paste easily applicable horizontally and vertically. Once dried it forms an elastic, continuous, waterproofing membrane resistant against thermal changes, UV rays and acid rains.





## POLYURETHANE WATERPROOFING

### ELASTOTHANE WP1

Elastomeric Single Component Polyurethane Waterproofing Membrane

A single component moisture-cured elastomeric polyurethane membrane coating. It is liquid applied, user friendly, gives long lasting maintenance and free waterproofing protection to concrete and steel structures.



### ELASTOTHANE WP2

Two Components Elastomeric Polyurethane Waterproof Coating

A two component, solvent free, liquid applied Polyurethane based waterproofing coating. It cures upon reaction of its two components and the resulting membrane is high performance seamless elastomeric waterproofing.

### ELASTOTHANE TR

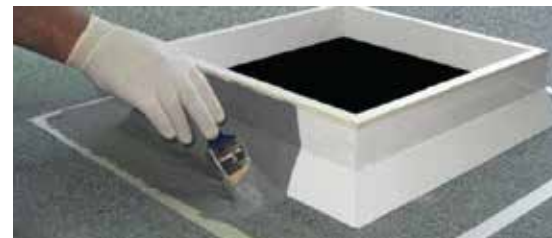
Pitch Elastomeric Single Component Polyurethane Waterproofing Membrane

A liquid applied, pitch modified, single-component moisture-cured polyurethane coating, designed to form a seamless, elastomeric rubber waterproofing membrane.

### ELASTOTHANE TR2

Pitch Elastomeric Two Component Polyurethane Waterproofing Membrane

A liquid applied, coal tar modified, two component moisture-cured Polyurethane coating, designed to form a seamless, elastomeric rubber waterproofing membrane.



## EPOXY WATERPROOFING

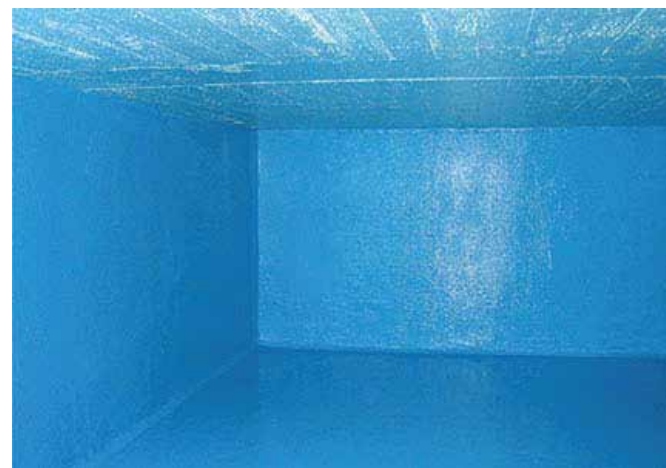
### EPOCHIM PWT

Solvent Free Epoxy Coating for Potable Water Tank

A two component, 100% solids, epoxy protective coating for concrete and steel. The cured film is resistant to corrosion, abrasion and chemical attack and is listed safe for potable water and incidental food contact.

### ADVANTAGES

- ▶ Approved to use with potable water
- ▶ Eco-friendly - No VOC
- ▶ Waterproof and protective coating with good aesthetic appearance
- ▶ High chemical and abrasion resistance
- ▶ Excellent adhesion to most building materials (concrete, steel) thereby providing maximum corrosion resistance
- ▶ Application friendly



## ACRYLIC WATERPROOFING

### MANTOFLEX

Elastomeric Acrylic Waterproofing Membrane

A product composed of water based synthetic polymers. It is a thixotropic paste, easily applicable on horizontal and vertical surfaces. Once dried, it forms an elastic, continuous, waterproofing membrane that is resistant to thermal changes, UV rays, and diluted acid solutions.

# 2

## SHEET MEMBRANE WP SYSTEM



### BITUMENEOUS SHEET WATERPROOFING SYSTEM

#### COLBETOMO APP

APP Modified Bitumen Waterproofing Membrane

An atactic polypropylene (APP) modified bitumen waterproofing membrane with non-woven spun-bond polyester or glassfiber reinforcement designed for general waterproofing applications.

#### COLBETOMO SBS

SBS Modified Bitumen Waterproofing Membrane

A styrene-butadiene-styrene modified bitumen waterproofing membrane reinforced with non woven polyester designed to provide sub-structure concrete surfaces with optimum waterproofing protection.

#### COLBETOMO SSA

Solar Self Adhesive Waterproofing Membrane

A bitumen waterproofing membrane designed to provide sub-structure concrete surfaces with optimum waterproofing protection. It is impermeable to water, very flexible and easy to work around protrusions and contours.

#### BETOBOARDI

Protective Bituminous Board

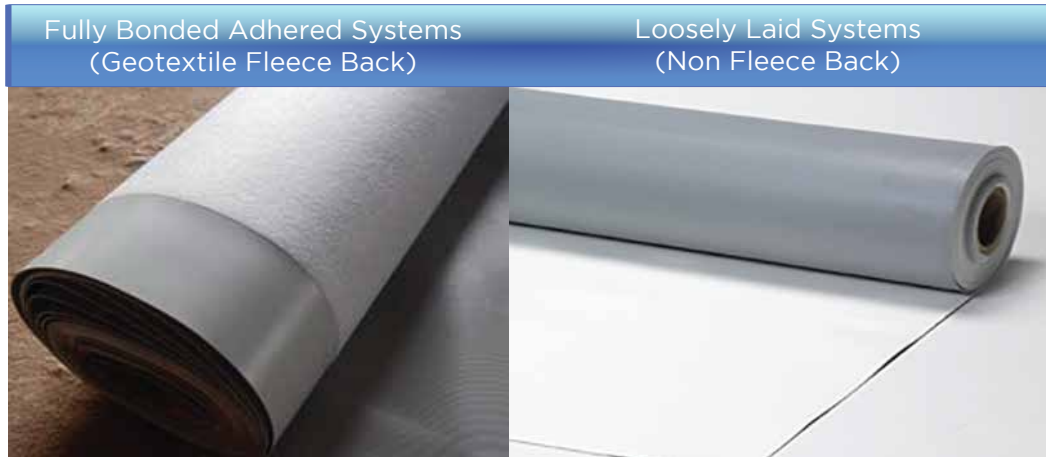
A pre-formed bituminous board modified with a special rigid compound. It is used to protect the waterproofing during backfilling procedures (retaining walls, fixed pavements, cast concrete etc.) and construction traffic.





## PVC WATERPROOFING MEMBRANE SYSTEMS

### TYPES OF INSUWRAP WATERPROOFING MEMBRANES



### ROOF WATERPROOFING



#### INSUWRAP PVC WM/WMR RANGE

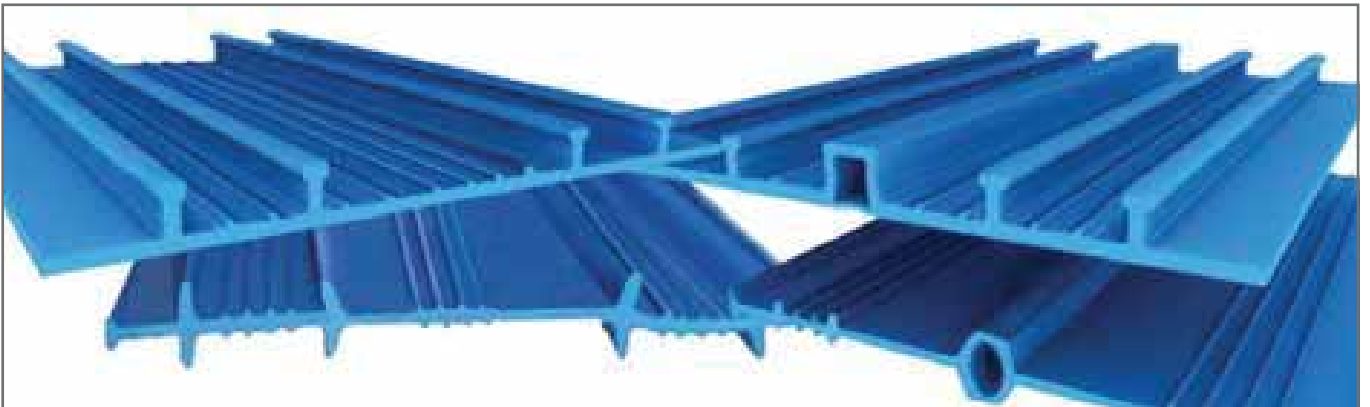
- ▶ WM - for Covered Roofs
- ▶ WMR - UV Range (For Exposed Roofs)
- ▶ Membrane thickness:  
1.2mm - 1.5mm - 1.6mm - 2.0mm

### SUBSTRUCTURE BASEMENT WATERPROOFING



#### INSUWRAP PVC TNL/TNL-FB RANGE

- ▶ Membrane thickness:  
1.5mm - 2.0mm - 2.2mm - 2.5mm - 3.0mm

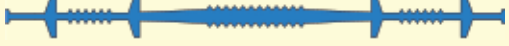
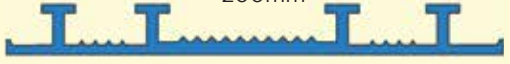
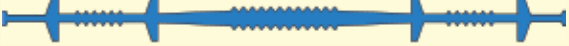











Primarily composed of high grade quality Poly Vinyl Chloride compound that are plasticized and stabilized in order to offer an extra long life performance in concrete structure against water leakages. It is specially designed to serve as an integral sealing system for construction, contraction and expansion joints in areas where water retention and water exclusions is required.






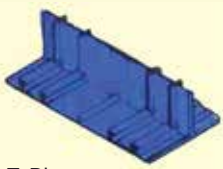

**ELASTOJOINT PVC** is manufactured to meet the most strength performance specifications and is highly resistant to abrasion and chemicals. (Traditional & Heavy Duty Profiles).

### ADVANTAGES

- ▶ Has a variety of profile selections to satisfy on-site conditions.
- ▶ High endurance for extreme water pressure.
- ▶ Easy to install / simple on-site butt welding.
- ▶ Reinforced eyeleted edge flanges for positive fixing.
- ▶ Four valve sealing system on all profiles.
- ▶ Exceptionally if exposed at adverse environmental condition.
- ▶ Heavy duty profiles are available upon request.
- ▶ 150mm, 320mm PVC Waterstop are available with minimum order requirements.

CONSTRUCTION JOINT	
INTERNAL	EXTERNAL
<b>IC 200</b> 200mm 	<b>EC 200</b> 200mm 
<b>IC 250</b> 250mm 	<b>EC 250</b> 250mm 
<b>IC 320</b> 320mm 	<b>EC 320</b> 320mm 

EXPANSION JOINT	
INTERNAL	EXTERNAL
<b>IC 200</b> 200mm 	<b>EE 200</b> 200mm 
<b>IC 250</b> 250mm 	<b>EE 250</b> 250mm 
<b>IC 320</b> 320mm 	<b>EE 320</b> 320mm 

PRE FABRICATED PIECES		
EDGE	FLAT	VERTICAL
 90° Mitre	Mitre 	 90° Cross Type
 270° Mitre	3-Way 	90° T-Piece 
	4-Way 	



### ELASTOJOINT PVC

Flexible PVC Waterstop

Must be securely fixed to avoid moving during concrete placement. Failure to achieve this will result in misaligned or non-active waterstops.



### EXTERNALLY PLACED WATERSTOPS

These waterstops are designed for use in basement, foundation and floor slab construction in vertical and horizontal joints in both water excluding structures.

When used in walls, externally placed waterstops will only resist water pressure from the face to which they are mixed. When used below floor slabs, where the waterstop is supported by the blinding concrete or when placed in vertical situations against permanent concrete shuttering, externally placed waterstop will resist water pressure from either face.



### CENTRALLY PLACED WATERSTOPS

These waterstops are positioned within the thickness of the concrete components thus as a result are supported by concrete on both sides. In this manner, they can be able to endure water pressure coming from either side making them suitable for use in water retaining structures. They function to inhibit loss of water from within the tank and will prevent ingress of water when the tank happens to drain down.



## ELASTOJOINT SB20

### Hydrophilic Swellable Waterstop Joint Profile

Highly polymerized, rubber based material with various additives. It has a unique properties that when in contact with water, its volume expands in a controlled fashion up to approximately 400%, guaranteeing a watertight seal between fresh and cured concrete as well as, on cracks caused by hydrometric shrinkage of concrete or structural movements.

#### ADVANTAGES

- ▶ Easy to install (no rails, bonding agents & welding required)
- ▶ No hardening nor curing time pre-requisite.
- ▶ Powerfully bonds with old and new concrete.
- ▶ Extremely durable and has superb waterproofing results
- ▶ Easy to shape and form joints
- ▶ Delayed swelling ability inhibits premature expansion in cases of adverse weather condition during installation or during pouring of concrete.
- ▶ Toxic and hazard threat-free
- ▶ Exceptionally flexible
- ▶ Good resistance to acids, alkalis and most aqueous solutions



The grooved profile of the ELASTOJOINT SB20 section improves the concrete bonding and enhance waterproofing performance.

## ELASTOJOINT RHS+

### Flexible Re-Injectable Hose Waterstop System

ELASTOJOINT RHS PLUS is a flexible re-injectable hose installed in concrete joints to waterproof and seal any crack or voids in the joint area to prevent leakage. It is specifically designed flexible solid PVC thermoplastic rubber covered by sponge strips.

ELASTOJOINT RHS PLUS offers a complete maintenance program for future leakage. If water test performed and voids in the joint are indicated, the voids should be filled with all type of injecting material, micro fine cements, cement slurry, acrylic & acrylates. These injecting materials are highly compatible with concrete.

#### ADVANTAGES

- ▶ Fast and can easily be installed.
- ▶ Proven and predictable performance.
- ▶ Joints can be tested or verified for water tightness.
- ▶ No drilling required thus prevents damage to concrete.
- ▶ Economical and maintenance free
- ▶ Operates under high or low injection pressure
- ▶ Does not depreciate even when exposed to injection materials.
- ▶ Suitable for multiple injections to seal working joints against pressing and non-pressing water.



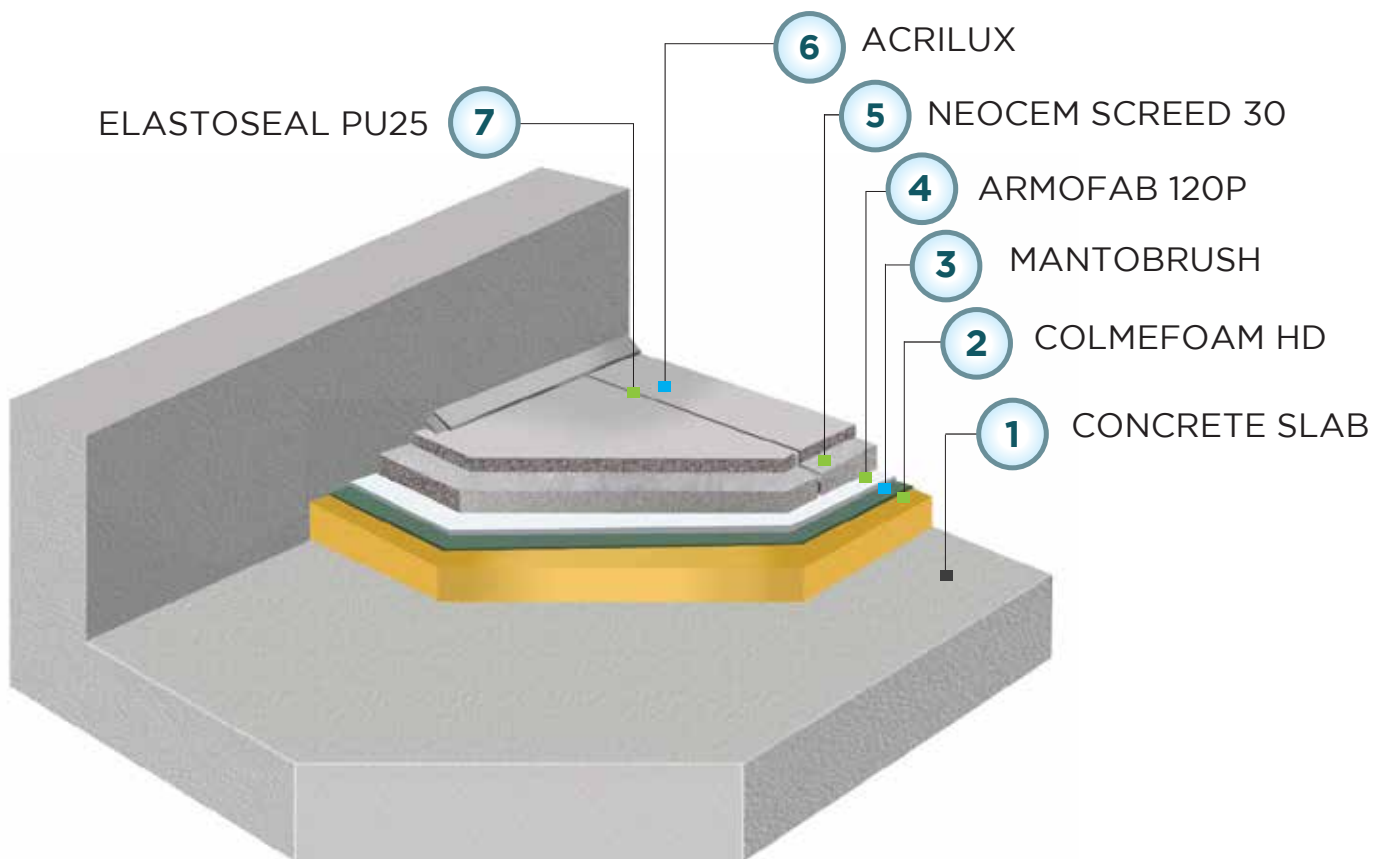
# 3

## SPRAY APPLIED PU FOAM WP

### COLMEFOAM HD

Spray Polyurethane Foam For Roof Waterproofing

A Rigid Polyurethane Foam. Suitable for the insulation of roofs, sheds, bays, farms, storage tanks and pipes through spraying process. If properly processed, the foam has good ageing characteristics and is classified B3 as per DIN 4102.



# MONNELI COLMEF



## DUBAI

P.O. Box 123808, Dubai - UAE  
T. +971 4 8803488  
E. colmef@colmef.ae

## KSA

P.O. 355896-Code: 11383 Riyadh - KSA  
T. +966 12654277 F. +966 12654335  
E. colmef@colmef.ae

## ABU DHABI

P.O. Box 1127326, Abu Dhabi - UAE  
T. +971 2 5511949  
E. colmef@colmef.ae

## ITALY

COLMEF s.r.l.  
Z.I. Ponte d' Assi  
06024 Guibbio (PG)

[www.colmef-me.com](http://www.colmef-me.com)

