

## MONNELI ARMOFLEX

*Fibre Glass Reinforcing Mesh*

### Product Description

A wide range of fibre glass mesh that can be used as reinforcement for wide variety of applications to provide a high shear and traction strength to the coating.

Produced in four grades (ARMOFLEX 130, ARMOFLEX 120, ARMOFLEX 60 and ARMOFLEX 250). Each grade has a unique property that when applied or used with other suitable COLMEF products, gives the finished product that fits the required purpose.

### Uses

ARMOFLEX is suitable for application in reinforcing waterproofing and cement coating on areas such as balconies, swimming pools, baths, shower cubicles, etc. with ceramic tile or stone finishes.

ARMOFLEX strengthens and is responsible of increasing the mechanical strength and aids in reducing the multiplication of cracks in almost all types of supports and could be positioned both horizontally and vertically.

### Advantages

- Easy to install
- High alkali-resistant
- Excellent shear adhesion and traction strength
- Compatible for any types of support

### Instructions for Use

#### Surface Preparation

All surfaces where the ARMOFLEX is to be applied must be smooth, clean, and free from dust, laitance or loose materials. When otherwise necessary, it is highly recommended to use compressed air or a wire brush in order to remove further dirt, oil stains and other inconsistencies.

#### Application

##### **For waterproofing**

Use a smooth trowel, roller or brush to apply the first coat of waterproofing product on the surface. Immediately lay ARMOFLEX along the surface while it is still fresh. Make sure to embed the mesh completely by gently pressing the product with the help of a trowel or roller. Apply the second layer of the waterproofing product after the first layer is totally dry (approximately 12 to 24 hours).

When joining the ARMOFLEX mesh together, be sure to keep an overlap of at least 5 to 10 cm.

##### **For plastering**

For plaster application, apply one coat of plastering product on the walls with a thickness as recommended in the data sheets. While the plaster is still wet, apply ARMOFLEX fibre mesh and imbed inside the plaster. Trowel the surface until the mesh is fully covered. When needed, apply the second layer of plaster to achieve the required thickness.

ARMOFLEX is available in four different grades. Refer to the technical properties table provided below.

When ARMOFLEX is to be used in conjunction with other COLMEF products, make sure to follow the recommended method of application for each product by referring always to the Technical Data Sheet.

#### Cleaning

Tools and equipment should be cleaned with water immediately after use. Hardened materials should be mechanically removed.

## Technical Data

Properties	Results
<b>ARMOFLEX 130</b>	
Composition	Fibre glass mesh
Structure	Woven
Mesh diameter	45 x 45
Roll area	50 m <sup>2</sup>
Roll height	100 cm
Threads per 10cm	
warp	≥ 50
weft	≥ 20
weight (g/m <sup>2</sup> )	150
Chemical resistance	Alkali-resistant
Applications	Reinforcement for cementitious mortar
<b>ARMOFLEX 120</b>	
Composition	Fibre glass mesh
Structure	Woven
Mesh diameter	27 x 27
Roll area	50 m <sup>2</sup>
Roll height	100 cm
Threads per 10cm	-
warp	≥ 70
weft	≥ 35
weight (g/m <sup>2</sup> )	60
Chemical resistance	Alkali-resistant
Applications	Reinforcement for acrylic based waterproofing membrane

<b>ARMOFLEX 60</b>	
Composition	Synthetic fibre fabric
Structure	non-woven
Mesh diameter	-
Roll area	100 m <sup>2</sup>
Roll height	100 cm
Threads per 10cm	-
warp	-
weft	-
weight (g/m <sup>2</sup> )	60
Chemical resistance	Alkali-resistant
Applications	Reinforcement for Cementitious and Acrylic based waterproofing membrane
<b>ARMOFLEX 250</b>	
Composition	Fibre glass mesh
Structure	Non-woven
Mesh diameter	-
Roll area	60 m <sup>2</sup>
Roll height	120 cm
Threads per 10cm	-
warp	-
weft	-
weight (g/m <sup>2</sup> )	225
Chemical resistance	Alkali-resistant
Applications	Reinforcement for elastomeric cementitious and acrylic based waterproofing membrane

All values are subject to 5-10 % tolerance

## Storage

Store in dry covered place in the original closed bags. In these conditions, the product shelf life is 12 months from production date.

## Health & Safety

There are no health hazards in connection with ARMOFLEX in normal use.

The information in this Technical Data Sheet is based on Colmef Monnelli's experience. Colmef Monnelli does not accept any liability arising from the use of its products as it has no direct or continuous control over where or how its products are applied. All Colmef Monnelli's Data Sheets are updated on regular basis. It is the user's responsibility to obtain the latest version.

DUBAI  
ABU DHABI  
KSA  
ITALY

P.O. Box 123808 Dubai UAE  
P.O. Box 127326 Abu Dhabi, UAE  
P.O. Box 335896 Code: 11383 - Riyadh KSA  
Z.I. Ponte d'Ássi 06024 Gubbio (PG)

T. +971 4 8803488 F. +971 4 8803450  
T. +971 2 5511949 F. +971 2 5511749  
T. +966 1 2654277 F. +966 1 2654335  
T. +39 75 9221297 F. +39 75 9221174

[colmef@colmef.ae](mailto:colmef@colmef.ae)

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

**ARMOFLEX**  
*Technical Data Sheet*  
*Edition: January 2020*  
*Revision: 02*