

**GENERAL<sup>®</sup>**  
**MEMBRANE**

**PHOENIX SUPER**  
**APAO MEMBRANES**



[www.generalmembrane.it](http://www.generalmembrane.it)

**STOPPING THE WATER**

# PHOENIX SUPER APAO MEMBRANES

**-35°C**

Cold Flexibility



scan the Qr code

**GENERAL**  
MEMBRANE

## WATERPROOFING MEMBRANES - APAO

Polymer bitumen membranes consisting of particular APAO compound which combines high temperature resistance and significant cold flexibility properties with resistance to stress and dimensional stability.

### COMPOUND

The **PHOENIX SUPER** membrane compound consists of a distilled modified bitumen mixture with a very high content of **Amorphous Poly-Alpha-Olefins (APAO)**. These particular elasto-thermoplastic polymers consist of a terpolymer of Ethylene, Propylene and 1-Butene, which has a strong compatibility with bitumen; its peculiar qualities are highlighted by three indicators: thermal ageing resistance, **cold flexibility (-35° C)**, better than SBS modified compounds, and flow resistance at the elevated temperature, **higher (140° C)** than SBS modified compounds. The extraordinary resistance to thermal ageing of this compound is reflected on increased service life of roofing. Phoenix Super membranes can be used in any climatic zone and mainly **on high thermal insulation roofing**. Excellent cold flexibility enables easy adaptation of the membrane during installation, which is an important feature in areas characterized by harsh climate. This compound, due to its specific formula, also has a remarkable behaviour against UV rays ageing and provides excellent walkability during application, essential properties on "exposed roofing"; where even the appearance must be impeccable. The compound, after thermal ageing behaviour, does not undergo any kind of decay in both cold flexibility and flow resistance at the elevated temperature.

The membrane is certificated by I.T.C. with D.V.T. 0004/2010 and by BBA with Agrément Certificate 99/3586.

### CUT FIRE® TECHNOLOGY

**PHOENIX SUPER** membranes are available in **CUT FIRE®** versions for the protection of the roofing system from external fire risks. This technology affords three main advantages if compared to other fireproofing treatments:

- **Unaltered technical specifications** and **waterproofing performance** of the membrane.
- **Fireproofing** performance remains intact throughout the lifecycle of the waterproofing membrane.
- **CUT FIRE®** reaction is not activated by torch on application of the membrane.

**CUT FIRE®** waterproofing membranes are tested in accordance with European Harmonized Test Regulations and have allowed General Membrane Roofing Systems employing them to obtain Broof Certification.

### REINFORCEMENT

The **Reinforcement** employed in The **PHOENIX SUPER** membranes consists in a **heavy-duty** rot-proof spunbond non-woven polyester fabric reinforced with glass fiber affording great elasticity, tensile strength and tear resistance. This is a **"composite" reinforcement** that combines the **excellent mechanical properties** of polyester reinforcements with the **extraordinary thermo-dimensional stability** typical of glass-fiber fabrics.

These combined properties avoid surface shrinkage and guarantee tensile strength, elongation and tear resistance allowing the membranes to **absorb high levels of strain** caused by structural movements of the underlying building and make it possible to employ mechanical fasteners to increase **wind load resistance** of the roofing system and **withstand pedestrian traffic and static loads**. Different reinforcements, as well as any other custom configuration of the product may be necessary to the Client, are available prior agreement with General Membrane.

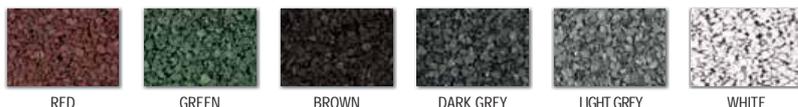
### SURFACE FINISHING

**PHOENIX SUPER** can be supplied with either a sanded, talc, PP film or slate chip (mineral) top finish, while the bottom surface can be smooth or embossed and protected by a heat sensitive non-stick film PE/PP or sand. Since the **PHOENIX SUPER** compound is virtually unaffected by UV radiation, the membrane can be left without further protection. However the system is also available with the membrane's upper surface coated with slate flakes that lower the membrane's temperature when exposed to intense sunlight, which in turn all have the effect of **slowing down the aging process, increasing the life of the system**.

EXTERNAL  
FINISHING



MINERAL  
COLOURS  
AVAILABLE



### WAREHOUSING & FIXING DIRECTIONS

Material has to be stored in a covered place; it is advisable not to exceed 12 months. Rolls must be stored vertically on pallets or on flat surfaces. Protect the membrane from extremely low temperatures and stabilize the material before its installation, leaving it at least 24 hours in a room at +5°C. All General Membrane products must be installed as per field of applications specified on the technical data sheet. **For a correct use of the products, please refer to the specific technical documents issued by General Membrane Spa.** If any law, norm or regulation different from what declared by the manufacturer is in force in the Country where the product must be installed, it must be considered as compulsory by the applicator. It is his own responsibility to follow the suitable legislative references.

All membranes made by General Membrane Spa are manufactured using unblown asphalt and do not contain either tar from coal or asbestos nor any other dangerous elements, according to law. (cfr. D.M. January 1992, all.to III p.to 2). Modified bitumen membranes mentioned in this technical data sheet are not submitted to fulfil the obligations of issuing the safety form according to DM of 28.01.92 part 10 "classifications and packaging methods and ticketing of dangerous compounds according to European directives". Complete information / safety from available upon request. Technical characteristics are related to current production. General Membrane SpA reserves the right to improve and change its products any time. It is the customer's duty to set the suitability between the product and its use.



### ADVANTAGES



### QUALITY & CERTIFICATIONS



AGRÉMENT  
CERTIFICATE  
99/3586



D.V.T. (I.T.C.) 0004/10  
CERTIFIED PRODUCTS

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