

**GENERAL**  
MEMBRANE®

**GALAXY FC  
APAO MEMBRANES**



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**STOPPING THE WATER**

# GALAXY FC APAO MEMBRANES



Cold Flexibility



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## WATERPROOFING MEMBRANES - APAO

**GALAXY FC** are a range of APAO modified waterproofing bituminous membranes that combine excellent high temperature flow resistance, low temperature flexibility, strain resistance and dimensional stability with an outstanding endurance to UV ray ageing action.

The unique composition of the APAO modified compound employed by **GALAXY FC** is the issue of the studies conducted by General Membrane Research & Development Laboratories. This compound and the heavy-duty reinforcement employed by these membranes both contribute to ensure a unique versatility. **GALAXY FC** membranes can be employed for waterproofing solutions that have to deal with the widest possible range of climatic conditions.

### COMPOUND

**GALAXY FC** membrane's compound consist of a distilled modified bitumen mixture with a very high content of Amorphous Poly Alpha Olefins (**APAO**). These particular elasto-thermoplastic polymers are composing 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 cycle resistance, cold flexibility (-25°), typical of SBS modified high quality compounds and dimensional stability (140 °C) higher than SBS modified compounds. The extraordinary resistance to thermal aging of this compound is reflected on increased service of roofing. **GALAXY FC** membranes can be used in any climatic zone and mainly on high thermal insulation roofing. Excellent cold flexibility enables easy adaption of the membrane during the application which is an important feature in areas characterized by harsh climate. This compound due to its specific formula, has also a remarkable behavior against UV rays ageing and provides excellent walkability during the covering, essential properties for a perfect finish of a fair-faced concrete where even the appearance must be impeccable. The compound, after thermal ageing cycle, doesn't suffers any kind of decay in cold bending and dimensional stability.

### REINFORCEMENT

The Reinforcement employed in **GALAXY FC** 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.

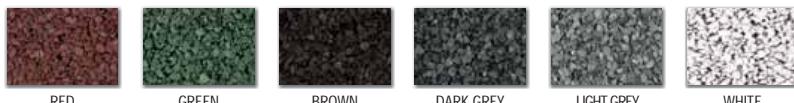
### SURFACE FINISHING

**GALAXY FC** 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 **GALAXY FC** 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

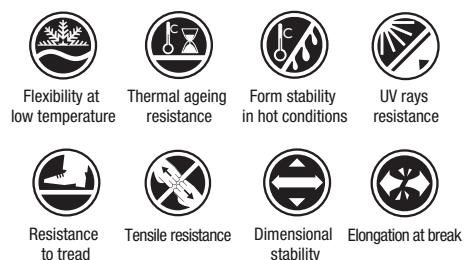
Material has to be stored in a covered place; it is advisable not to exceed 12 months. Rolls must be stored vertically on pallets or on flat surfaces. Protect the membrane from extremely low temperatures and stabilize the material before its installation, leaving it at least 24 hours in a room at +5°C. 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, art. II, 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.

for more informations: [export@generalmembrane.it](mailto:export@generalmembrane.it)



### ADVANTAGES



### QUALITY & CERTIFICATIONS



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