

Product Information GPG Marine

Firesafe product code (20 litre pail): 100052

GPG MARINE

GPG Marine (GPGM) is a further development based on the well known Firesafe GPG mortar, which has been in successful operation for several decades. In addition to excellent fire resistant qualities GPGM has, after hardened and dried, very good water repellent properties. This makes the product an excellent choice for use in a/an marine/offshore environment.



GENERAL

GPGM is a powder consisting of plaster, perlite and glass fibre, in addition to other ingredients and additives. When mixed with water the mortar hardens into a strong and fireproof material. GPGM is used as fire proof sealing material in cable/pipe penetrations through bulkheads and decks.

The mortar effectively prevents fire, smoke, and poisonous gases from spreading between fire cells.

APPLICATION

- Fireproofing of cable penetrations.
- Fireproofing of pipe penetrations. Alternatively together with Firesafe's Pipe Wrap

INSTALLATION

Check that the inside of the sleeve is clean and free from dirt, dust or other contaminants. The inside of the sleeve might be carefully grinded for a rougher surface, but this is not mandatory.

If necessary, use backfill of e.g. stone wool to get the necessary depths and dimensions for Firesafe GPG Marine which can be removed when GPG Marine is completely dry.

Add GPGM into a bucket with water (NB: water first in the bucket), and mix by hand or with a power mixer for about ½ minute to a smooth mixture to the desired consistency (see mixing ratio below). Initial setting time is 75 minutes but may vary depending on the water-GPGM powder ratio. Check that the inside of the sleeve is free from combustible materials, dirt, dust or other contaminants and that it provides a clean inner surfaces.

Mixing ratios	GPGM to water
Accessible vertical areas	4:1
General working/gunning	3:1
Holes in floors/decks slabs	2:1



Mix GPG Marine to desired consistency

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PACKAGING

Pail with 20 litre GPGM in sealed plastic bags (4x5litre) for easy application. This contributes to easy handling for users of GPGM, since one can use the bucket for mixing the desired amount.

STORAGE

Store dry, flat and frost free. Storage life maximum 5 years.

SAFETY ISSUES

Please refer to latest version of separate Material Safety Data Sheet (MSDS)

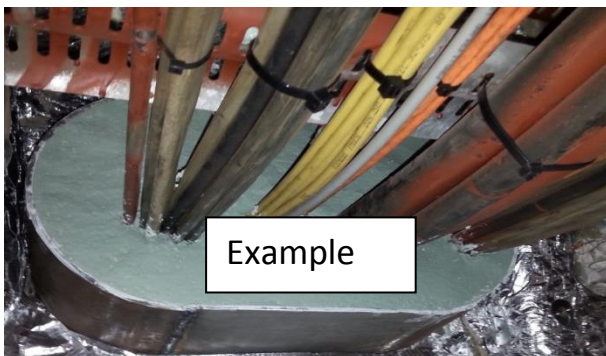
Material Data (approximate values)

Property	Value	Denomination/comments
Density	0.7	Kg/dm ³
Colour	White/light green	Dry powder is white. When mixed with water the product change colour to light green

Volume increase during hardening	1	Percent, %, (volume)
Initial hardening time	75	minutes
Full hardening/drying time	21	Days (>10 Deg C)

Specific heat at 20 Deg C	575	J/kg°C
Specific heat at 1000 Deg C	986	J/kg°C
Thermal conductivity at 10Deg C	0.14	W/m·K
Thermal conductivity at 100Deg C	0.15	W/m·K
Thermal conductivity at 500Deg C	0.17	W/m·K

Chemical resistance to water	VERY GOOD	
Chemical resistance to mineral oil/petrol/organic solvent	GOOD	
Content of chlorine, fluorine and bromine	0	Percent, %, (weight)



Example



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