

# Hyonic<sup>®</sup> PFM-10

## Zero VOC Foaming Agent for Gypsum Wallboard

### Hyonic<sup>®</sup> PFM-10

### Product Bulletin

**Hyonic<sup>®</sup> PFM-10** anionic surfactant functions as a powerful, cost effective foaming agent for gypsum wallboard manufacture. It has efficient wetting and emulsifying properties and works effectively in cold and hard water as well as being fully biodegradable and free of Volatile Organic Compounds.

When employed with our **Diloflo<sup>®</sup> GS-30/GS-20** or **Diloflo<sup>®</sup> CA/CA-30** water reducers, **Hyonic<sup>®</sup> PFM-10** gives a unique bubble structure in gypsum wallboard through synergistic interaction. This allows significant savings through kiln efficiencies and lower board weights while increasing nail pull strength.

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Technical Data	Typical Properties
Appearance	Clear, pale yellow liquid
Density, lb/gal	8.75
kg/m <sup>3</sup>	1,069
Activity, %	30 - 34
pH 10% soln	8 - 10
Na <sub>2</sub> SO <sub>4</sub> dry basis, %	1 max
Freeze Point, °C / °F	0 / 32
Minimum storage temperature, °C / °F	13 / 55

## Viscosity Profile

Temperature		Viscosity, cps
°C	°F	
9	48	75
15	59	25
25	77	22
30	86	20

## Dosage & Application

Each board plant has its own unique set of conditions that differentiate it from all others. Foaming agent usage can vary over a wide range of application, from 0.3 – 1.5 lb/MSF (1.5 – 7.3 g/m<sup>2</sup>).

Our technical service and sales personnel are available upon request to assist you in the use of **Hyonic® PFM-10** in your particular application.

## Packaging, Storage & Handling

**Hyonic® PFM-10** is shipped in bulk, 275 gal (1040 L) returnable totes or 55 gallon (200 L) plastic drums.

Protect **Hyonic® PFM-10** from freezing in storage and transit. Product may congeal or stratify if cold. Maintain storage at 10°C (50°F) minimum. If congealed, allow to warm to 50°C (122°F) and mix well to restore clarity before using. If it is kept above 50°F there should not be any issues, and viscosity will not be high and no agitation should be required.

If using a heating element, agitation or circulation by a pump will be needed to prevent localized heating.

Store in closed containers above 7°C / 45°F. **Hyonic® PFM-10** is considered a non-flammable liquid for storage and transportation purposes. It contains no flammable agents. Shelf life is >6 months, although it is recommended that inventories be managed to consume it within 6 months.

The recommended material of construction for storage tanks, piping, pumps, wetted parts is 316 or 316L stainless steel, FRP or Polypropylene. Compatible elastomers are Buna N, Viton®, and Teflon® for seals and gaskets.

This product should be transferred and unloaded using a pump. Care should be taken to avoid free fall of product. Using air pressure to unload or transfer this product is not recommended because of its tendency to foam.

Additional handling information is contained in a Safety Data Sheet, which is available upon request. **Hyonic® PFM-10** is classified for freight as: Cleaning, Scouring or Washing Compounds, NOI, Liquid. •

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