

# HPP SLOW SET ANNULUS FILL

## #670

SOLVENT-FREE PURE  
EPOXY RESIN



**HUNT PIPELINE  
PRODUCTS, LLC**

## Hunt Pipeline Products

### PRODUCT DATA SHEET

**HPP #670** is based on pure **liquid** epoxy polymers, proprietary polyamine curing agents and inert extender resin. It is formulated with *no* volatile solvents and is so completely tolerant of water that it may be applied to damp or wet surfaces yet still function well as a reinforcing annulus filler. Applications are easily made by pouring or pumping. Odor during application is almost completely absent so there are no requirements for artificial ventilation.

**HPP #670** can be shipped by Ground "Non-Regulated" by USDOT. When shipped by Air or Ocean **HPP #670** base is classified UN3082, PGIII unless shipped in approved containers of <5L, (<1.32 gallons), individual capacity. The curing agent is "Non-Hazmat" when shipped in any quantity by Air Ocean or Ground.

### RECOMMENDED USES

**Annulus filler** – recommended for use where a slow set is required in large volume applications. In larger smaller applications where an excessive exotherm will be generated the faster curing **HPP Fast Set #650** may be appropriate.

### TECHNICAL INFORMATION

COMPOSITION : Vehicle Type.....	Epoxy/Polyamines/extender resins
Pigmentation.....	None
Solids by Volume.....	100%
Flash Point .....	Over 212°F
VOC .....	Essentially Zero
APPEARANCE: Gloss .....	Full gloss
Color.....	Amber when cured
APPLICATION: Methods .....	Install by pumping or pouring
Mixing Ratio .....	Base 1.00 / Cure 1.00 by volume
Consumption, (theor.) .....	1 gallon occupies 231 cubic inches
Induction Time .....	Not Required - may be used immediately after mixing
Pot Life.....	Approx. 65' @ 77°F, (25°C)
Curing Time .....	24 hours firm cured @77°F, (25°C) "Full curing" in 5 days @ 77°F, (25°C)
STORAGE: Shelf Life.....	24 months under normal storage conditions
TRANSPORTATION.....	USDOT, IATA, & IMO "Non-Regulated" when shipped in kits of 2-gallons or less. The epoxy base is classified as UN3082, PG III when shipped in volumes of more than 5 liters/1.32 gallons. The curing agent is "Not Regulated", (NonHazmat).

## APPLICATION NOTES

**MIXING PROCEDURE:** **HPP #670** is supplied in kits of equal volumes of epoxy base and curing agent. Kits are sized according to the volume of the annulus filling in order to assure convenient mixing with minimum wastage. A "Jiffy" type mixer with a high torque motor is recommended for proper blending of larger kits, standard paint mixers work well for smaller kits of 2-gallons or less. When mixing pour the curing agent into the base and mix for about 2 minutes taking care to stir in all base material from the edges and base of the plastic pail, *unmixed material will never harden*. No induction or "sweat-in" time is required and the mixed material may be used immediately.

Pot life and reaction time is heavily dependent on temperature, as a general guide figure that each 18°F, (10°C), variation in temperature above or below 77°F, (25°C), will respectively halve or double the pot life and cure times.

**INSTALLATION:** Install the mixed **HPP #670** resins by simply pouring or by injection through ports as appropriate. The **HPP #670** is low viscosity, similar to 30 weight motor oil, and will flow easily to completely fill the annulus.

A slight exotherm, or heat generation, may be noticed during curing however this will have no detrimental effect on the final product. When large installations are installed the slow curing **HPP #670** is designed to cure much more slowly in order to minimize exotherm in a large mass.

**CURING BEFORE SERVICE:** **HPP #670** will cure to a hard resin within 24 hours. Allow at least five (5) days at 77°F/25°C before subjecting to aggressive

WE URGE YOU TO READ THE MATERIAL SAFETY DATA SHEET (MSDS) BEFORE USING PRODUCT AND TO CALL THIN FILM TECHNOLOGY, INC. AS NECESSARY FOR ADVICE OR INFORMATION BEFORE ANY ACTUAL OR CONTEMPLATED APPLICATION.



Hunt Pipeline Products, LLC • 123 Tam Rd • Huntsville, TX 77320  
(281) 610-6539 • Email: [sales@huntpipelineproducts.com](mailto:sales@huntpipelineproducts.com)  
Website: [huntpipelineproducts.com](http://huntpipelineproducts.com)

**SAFETY:** This is a hazardous material if misused. Read and understand the Material Safety Data Sheet (MSDS) before use.

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