

HEATEC BULLETIN

Product news from Heatec Inc., an Astec Company 5200 Wilson Road, Chattanooga, TN 37410 Phones 423-821-5200 800-235-5200



Asphalt tanker receives liquid asphalt for delivery to hot mix asphalt plants. Heatec polymer blending equipment is visible in the background, on the left side of the picture. A 500,000-gallon asphalt storage tank appears in the background, on the right side of the picture.



L to R: Heatec polymer blending system with two 4,000-gallon vertical batch tanks, one 22,000-gallon blending tank, and two 35,000-gallon horizontal asphalt tanks. The polymer feed system is in front of the two batch tanks.

AMOCO terminal uses Heatec heating, storage and mixing equipment

AMOCO, a major supplier of liquid asphalt for the hot mix asphalt industry, recently upgraded their terminal in Chattanooga, Tennessee. The upgrade includes a new thermal fluid heater and the addition of equipment to handle polymer-modified asphalts (PMACs). AMOCO engaged Terry Materials, Inc. of Hamilton, Ohio to oversee selection, installation and operation of the new polymer equipment. Terry Materials is a supplier specializing in modified asphalt for the hot mix industry.

Terry Materials has over twelve years of experience with polymers. They had previously worked with Heatec, Inc. in the development of specialized equipment for heating, blending and storing asphalts containing polymers. Consequently, they chose Heatec to build the polymer equipment for the AMOCO terminal. The underlying purpose of polymer blending, according to Mark Terry, president of Terry Materials, Inc., is to upgrade the properties of asphalt to improve the performance and life-expectancy of our highway system.

Major components Heatec provided are as follows:

- One 8 million Btu thermal fluid heater with combustion air pre-heater (87% efficiency)
- Two 4,000-gallon vertical batch tanks
- One 22,000-gallon blending tank
- Two 35,000-gallon horizontal asphalt tanks
- One polymer feed system
- Two 450 gpm asphalt pumps

Heatec 8-million Btu thermal fluid heater. It heats thermal fluid flowing through its helical coil to over 350 degrees F. In turn, the heated fluid heats a total of 2,500,000 gallons of liquid asphalt stored in two large asphalt storage tanks plus five smaller tanks used for polymer blending. The combustion air pre-heater atop the heater boosts efficiency to 87%.



Steve Hewitt, manager of AMOCO's Chattanooga terminal says polymer asphalts are now available from his terminal. He noted that his facility serves about 23 hot mix asphalt plants located within a 90-mile radius of the terminal. Hewitt said: "Customers are already benefiting from changes to the terminal. We can now fill a tanker in 10 minutes due to our larger asphalt lines and stable delivery temperatures. Moreover, we are delivering asphalt at higher temperatures, which reduces the amount of heating our customers need to do."

The terminal was originally opened in 1954. It was expanded to a 15 acre site in 1995 when AMOCO purchased an adjoining facility occupied by Texaco.

