

## **PAVING ASPHALT PBA-2**

### **Description:**

PBA-2 is a paving asphalt cement used primarily for the production of hot mix asphalt (HMA).

---

### **Storage /Handling:**

Personnel must be trained in the proper handling of PBA-2 and provided the information contained in the Material Safety Data Sheet (MSDS).

The WSDOT specification states PBA-2 asphalt at hot mix plants may be heated to a maximum temperature of 177°C (350°F). However, the preferred storage temperatures of PBA-2 are from 135°C TO 163°C (275°F to 325°F). Unnecessarily high temperatures result in increased asphalt hardening and heating costs.

Because of the high temperatures of paving asphalts, extreme care must be exercised in handling them to prevent severe burns. Proper clothing must be worn with face shields, hard hats, long sleeve shirts, pants, boots and rubber-faced insulated gloves being required for protection.

The preferred storage temperature at the hot mix plant for PBA-2 is 135°C to 163°C (275°F to 325°F). These temperatures should be verified with your asphalt supplier.

This asphalt must be stored in insulated tanks, which have hot oil, electric or high-pressure steam heating systems. We recommend that inspection of asphalt storage tanks be done on a regular basis to prevent potential performance problems.

Because of the high temperatures of paving asphalts, extreme care must be exercised in handling them to prevent severe burns. Proper clothing must be worn with face shields, hard hats, long sleeve shirts, pants, boots and rubber-faced insulated gloves being required for protection.

We recommend that inspection of asphalt storage tanks be done on a regular basis to prevent potential performance problems. When loading trucks and trailers or transferring paving asphalt into empty tanks care must be taken to prevent boiling-over due to the presence of water. If trucks or trailers have previously hauled a water-based product such as emulsified

asphalt, they must be inspected for moisture and may require drying out before loading. Also, hoses and fitting must be inspected regularly for defects.

---

### **Usage:**

PBA-2 is primarily used in paving for both new construction and pavement rehabilitation and in both dense-graded and open-graded HMA. Other uses include spray applications for bridge deck and pavement protective membranizing with fabrics.

---

### **Mixing:**

The use of proper mixing temperatures for PBA-2 asphalt is not only important to achieving adequate asphalt coating and mix compaction, but also to the asphalt hardening and pavement properties. Very high mixing temperatures can result in a more brittle pavement while lower temperatures can result in a pavement that has increased tenderness. Therefore, it is important to consider the mixing temperatures recommended in the mix design or by the asphalt suppliers.

---

### **Additional Information:**

For additional information on PBA-2, contact the Asphalt Division of U.S. Oil & Refining Co., 3001 Marshall Avenue, Tacoma, Washington, 98421, Telephone: 253-383-1651 and Fax: 253-572-1717

---

### **Disclaimer of Implied Warranties:**

U.S. Oil & Refining Co. makes no warranty that the asphalt material discussed in this product bulletin is merchantable or fit for any particular purpose, and there are no warranties, expressed or implied, which extend beyond this product bulletin.

---

### **Disclaimer of Expressed Warranties:**

Any affirmation of fact or promise contained in this product bulletin shall not be deemed to create an expressed warranty that the asphalt described shall conform to the affirmation or promise. Any description of the asphalt is for the sole purpose of identification and shall not be deemed to create an expressed warranty that the asphalt shall conform to the description. Any sample or model is for illustrative purpose only and shall not be deemed to create an expressed warranty that the whole of the goods shall conform to the sample or model. No affirmation, promise, description, sample or model shall be deemed part of the basis of the bargain of any sale with U.S. Oil & Refining Co.

