



PAVEMENT **Since**
SYSTEMS, INC. **1981**

WHAT YOU NEED TO KNOW ABOUT ASPHALT

Pavement Systems specializes in commercial paving and asphalt maintenance. While we are the Midwest asphalt experts, we do not manufacture asphalt, but we know the importance of understanding this incredible product for our customers.

Read on to learn more.

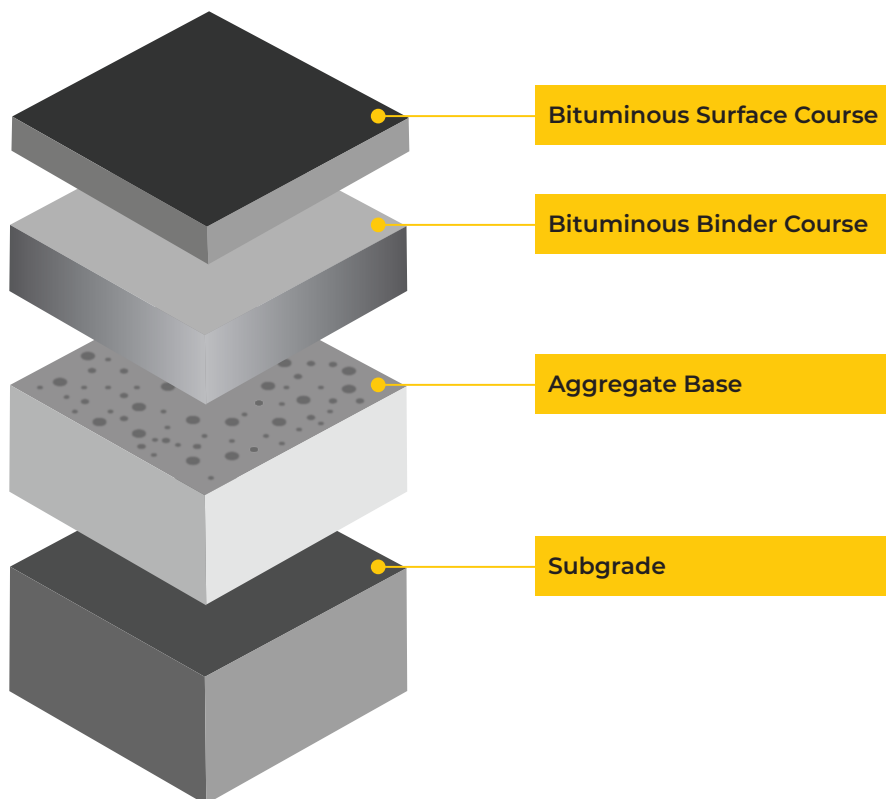
COMPOSITION AND USE

Asphalt is a building material used for the construction and maintenance of an array of paved surface projects, commonly including:

- Roadways
- Runways
- Bike and walking paths
- Rail tracks
- Athletic tracks

Asphalt is composed of aggregates. These materials include coarse-medium grained particulate material (like crushed rocks, sand, or gravel) and bitumen, a sticky, black, highly viscous petroleum liquid that holds it together.

The mixture is applied in different layers:



- The base layer is applied over the subbase to create a stable surface for pavement.
- The binder and surface layers create durability and strength.
- The top layer is a fine, black layer of smaller aggregate that creates a smooth surface.

5 TYPES OF ASPHALT



Asphalt is categorized by the type of aggregate, which determines the use, strength, and structure of the surface.

1

Dense

General purpose asphalt used for all pavement layers, this hot asphalt mix that provides long-term durability against various weather conditions and traffic.

2

Porous

Frequently used in parking lots, driveways, playgrounds, and sidewalks, allows water to permeate through its surface and into the ground's stone recharge bed, where it slowly seeps into the soil, making it more functional in terms of enhancing safety, controlling stormwater, and doing away with standing water.

3

Hot

A long-lasting paving and patching material that is used at temperatures between 270° F and 325° F, keeping the asphalt malleable until it cools and becomes unusable.

4

Cold

A temporary application or patch that is placed down at lower temperatures to slow the curing process, best used in low-traffic areas.

5

Warm

A long-lasting paving and patching material solution that is used at temperatures between 30° F and 120° F, allowing for longer paving seasonality and more distance between the materials location and the installation location.

ASPHALT MAINTENANCE AND REPAIR



Asphalt surfaces are a large investment and can be costly to completely replace. Working with a paving expert will extend the life of your asphalt surfaces, helping you create a pavement management strategy that includes regular inspections and continuing preventative maintenance, including:

- **Sealcoating**
- **Cracksealing**
- **Pavement Marking**
- **Patch & Repair**

When asphalt is damaged, for whatever reason, contacting a pavement professional is a must. Pavement Systems Inc. can help determine the best solution that meets your needs and mitigates further issues. Contact us immediately for any asphalt damage repair.

