



Virginia Ready-Mixed Concrete Association

Concrete Pavement

Why is concrete such a great pavement choice?

Safety

- Best Visibility - Concrete reflects light, which increases visibility and can save on street lighting costs.
- Reduced wet spray - Concrete never ruts. There's NO risk of water accumulating in ruts and causing hydroplaning.
- Best traction grip - Concrete pavements are easily "roughed up" during construction to create a surface that provides superior traction.



Durability

- Rigid for life - Concrete actually hardens over time. After its first month in place, concrete continues to slowly gain 10 percent in strength during its life.
- Outlasts flexible materials - With an average life span of 30 years, concrete makes the best long-term pavement solutions.
- Exceeds its own life expectancy - Concrete pavements frequently outlast their designed life expectancy and traffic loads.

Smoothness

- Concrete stays smoother longer - The rigidity of concrete pavements allows it to keep its smooth riding surface long after construction.
- Smoothness most important issue for users - Smoother pavements create safer, more comfortable transportation surfaces.
- Roads last longer - Concrete can withstand even the heaviest traffic loads. There's no need to worry about ruts, shoving or washboard effects common with asphalt pavements.
- Roads save fuel - Concrete's hard surface makes it easier for rolling wheels. Studies have even shown that this can increase truck fuel efficiency.

Versatility

- Variable life expectancy - Concrete pavements can be designed to last from 10 to 50 years, depending upon the system needs.

- Ideal for distressed asphalt - Whitetopping, a process of placing a thin layer of fiber-reinforced concrete over prepared asphalt, is a cost-effective, expedient method of rehabbing old pavements.
- Best choice for worn concrete - Concrete pavement restoration techniques can extend the life of pavements up to nine times their original design life.

Value

- Long-term value - Concrete pavements are by far the best long-term value because of their longer life expectancies and minimal maintenance requirements.
- Easy to repair - The durability of concrete minimizes the need for annual repairs or maintenance. When repairs are necessary, they are typically smaller in scope than asphalt pavements.
- Rapid paving - Concrete pavement can be built and open to traffic in as little as 12 hours.