

WHAT CAUSES TIRE MARKING ?

- Plasticizer Migration: This process can cause black marks on your garage floor. Plasticizers are added into the formulation of tires to create more flexibility. However, when the tire is heated or when it stays at the same place for a certain period, the plasticizers tend to leach out onto the floor... leaving a black mark.

- Hot Tires: When driving, the tire is in friction with the road and heats up so that the rubber expands to get more grip. When parking the car, the rubber cools down and shrinks back to its original form. In this process, the heat is transferred from the tread contact of the tire to the floor coating. Depending on the thickness of the coating, the latter can start peeling off if the film is too thin, because of the heat.

- The Paw Printing Phenomena: Additives, such as antioxidant or antiozonant are added during manufacturing to stabilize the rubber compound and give it more UV resistance. When these chemicals (like 6PDD) leach out and get oxidized they turn into a purple/gray or black paw print on the floor. The tendency of a tire to stain will depend both on the type/manufacturing of the tire and type of floor coating. The brown stain is the result of the reaction between the chemical in the tire and the coating.



- Other Factors: There are so many factors that can impact tire staining on your floor such as the age of the tire, the manufacturing process, the temperature of the floor, atmospheric contaminants, colour of the coating, length of cure, specific chemicals used for each tire, weight of the vehicle, UV exposure, relative humidity, temperature...

How to Mitigate the Problem?

- Apply thicker epoxy/urethane or polyaspartic floor systems
- Always have your floor applied by professionals
- Make sure your flooring system is fully cured to secure a fully cross link before putting in service
- Choose dark colours for your floors as it will better hide the marks
- For long term exposure, consider using mats under each tire

Cleaning & Maintenance

- Remove all dirt and dust
- Clean your floor regularly with soapy water (neutral PH)
- For deep marks, clean spots with acetone or xylene



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Sikafloor®-515 - For Enhanced Resistance



Sikafloor®-515

Sikafloor®-515 is a clear, glossy, two-component, solvent-free, high solids, low-viscosity, high strength, polyaspartic resin system with exceptional resistance to tire marking making it **ideal as automotive garage floor finish**.

Sikafloor®-515 is designed to be installed as a clear, **glossy topcoat** over decorative multicoloured quartz or flake broadcast system where a low VOC, fast cure, flexible, and UV resistance finish coat is necessary.

ADVANTAGES

- Enhanced resistance to hot tire marking
- **Fast cure**, allowing a rapid return to service
- Durable, impermeable and seamless
- High density prevents dirt penetration, which provides **easy cleaning**
- Superior mechanical resistance
- Excellent UV resistance

BEFORE CLEANING AFTER CLEANING



To learn more ...

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