

CHAPTER 5

Chip Seal Materials Selection

The performance of a chip seal is largely dependent on the materials used. Therefore, selecting the appropriate aggregates and asphalt emulsion and deciding whether to apply a fog seal to the surface play a significant role in the success of the project. The following discussion provides guidance regarding these factors.

5.1 Chip Gradation

The gradation of the chip should be one- or two-sized, but the maximum size should be selected based on traffic volume, pavement texture, and the required level of sealing. Generally, larger aggregate provides greater ability to seal because of the higher volume of binder required to hold the chips in place, and depending on traffic volume, provides longer life expectancy. However, larger aggregates increase the chances for vehicle damage, noise, and roughness.

5.2 Modified or Unmodified Emulsion

Modified emulsions usually refer to some sort of elastomeric polymer or rubber added to the emulsion or to the base asphalt binder prior to emulsification. Because modified emulsions should offer greater adhesivity and potentially shorter time required before opening to traffic, they are generally used on higher traffic pavements, where vehicle damage potential is

greater and where limited time under traffic control is usually desirable.

5.3 Fog Seal After Chip Seal

A fog seal may be applied to any completed chip seal as a means of providing a high color contrast for paint stripes. There are also some preliminary indications that the fog seal provides some additional waterproofing (Shuler 2007). Care should be taken whenever applying a fog seal since pavement friction could be reduced if the fog seal is applied at too high an application rate, the fog seal emulsion has a high residue content, or the fog seal has not broken sufficiently to support uncontrolled traffic.

5.4 Emulsion-Aggregate Compatibility

There is anecdotal evidence of apparent incompatibility arising from use of anionic or cationic emulsions with siliceous or calcareous aggregates, respectively. This incompatibility manifests itself with a loss of aggregate from the chip seal. This behavior was not observed during the NCHRP Project 14-17 research, in which 20 combinations of aggregates and emulsions were represented. Therefore, unless impractical, anionic emulsions should be paired with positively charged aggregates (i.e., calcareous), and cationic emulsions should be matched with negatively charged aggregates (i.e., siliceous) to avoid possible incompatibility between the materials.

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Chip Seal Best Practices Douglas D. Gransberg, David M. B. James, National Cooperative Highway Research Program, 2005 TRB's National Cooperative Highway Research Program NCHRP Synthesis 342 Chip Seal Best Practices examines ways to assist in the development and implementation of pavement preservation programs by identifying the benefits of using chip seal as part of a preventive maintenance program and by highlighting advanced chip seal programs in use around the world. The report includes approximately 40 best practices in the areas of chip seal design methods, contract administration, equipment practices, construction practices, and performance measures. According to the report, the increased use of chip seals for maintenance can be a successful, cost-effective way of using preventive maintenance to preserve both low volume and higher volume pavements. Kansas Department of Transportation 2014 Chip Seal Manual Dean M. Testa, 2014. A chip seal is a very effective thin surface treatment process used by maintenance managers to preserve existing asphalt pavements. The Kansas Department of Transportation KDOT 2014 Chip Seal Manual is a guide that provides guidelines, background, and general information for the design, construction, and inspection of chip seals. This manual is intended for use by KDOT field engineers, laboratory personnel, construction inspectors, and contractor's estimators, supervisors, operators, and workers to provide procedures for the design of chip seals. The information, recommendations, and best practices provided in this manual may refer to either 1. learning the overall chip seal operation, 2. learning about the workings, maintenance, calibration, and proper operation of equipment used in chip sealing, or 3. learning chip seal design procedures. This manual consists of seven chapters. Chapter 1 is the introduction. Chapter 2 is about selection of chip seal. Chapter 3 discusses the materials for chip seal and the design process. Chapter 4 discusses surface preparation prior to chip sealing. Chapter 5 describes equipment inspection and calibration. Chapter 6 discusses the actual application process. Chapter 7 underlines the areas of concern during construction process. Guide for a Road Inventory Manual of Instructions, 1967.

Bearing Capacity of Roads, Railways and Airfields Andreas Loizos, Imad Al-Qadi, Tom Scarpas, 2017-07-20. Bearing Capacity of Roads, Railways and Airfields includes the contributions to the 10th International Conference on the Bearing Capacity of Roads, Railways and Airfields BCRRA 2017, 28-30 June 2017, Athens, Greece. The papers cover aspects related to materials, laboratory testing, design, construction, maintenance, and management systems of transport infrastructure and focus on roads, railways, and airfields. Additional aspects that concern new materials and characterization, alternative rehabilitation techniques, technological advances, as well as pavement and railway track substructure sustainability, are included. The contributions discuss new concepts and innovative solutions and are concentrated but not limited on the following topics: Unbound aggregate materials and soil properties; Bound materials characteristics; mechanical properties and testing; Effect of traffic loading; In situ measurements techniques and monitoring; Structural evaluation; Pavement serviceability condition; Rehabilitation and maintenance issues; Geophysical assessment; Stabilization and reinforcement; Performance modeling.

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1. Understanding the eBook Chip Seals Manual And Guide
 - The Rise of Digital Reading Chip Seals Manual And Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Chip Seals Manual And Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Chip Seals Manual And Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chip Seals Manual And Guide
 - Personalized Recommendations
 - Chip Seals Manual And Guide User Reviews and Ratings
 - Chip Seals Manual And Guide and Bestseller Lists
5. Accessing Chip Seals Manual And Guide Free and Paid eBooks
 - Chip Seals Manual And Guide Public Domain eBooks
 - Chip Seals Manual And Guide eBook Subscription Services
 - Chip Seals Manual And Guide Budget-Friendly Options
6. Navigating Chip Seals Manual And Guide eBook Formats

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- Chip Seals Manual And Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chip Seals Manual And Guide
 - Highlighting and Note-Taking Chip Seals Manual And Guide
 - Interactive Elements Chip Seals Manual And Guide
- 8. Staying Engaged with Chip Seals Manual And Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chip Seals Manual And Guide
- 9. Balancing eBooks and Physical Books Chip Seals Manual And Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chip Seals Manual And Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Chip Seals Manual And Guide
 - Setting Reading Goals Chip Seals Manual And Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chip Seals Manual And Guide
 - Fact-Checking eBook Content of Chip Seals Manual And Guide
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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