

SECTION-37 SEAL COATS

2015 Update



GENERAL

- ❑ **Section 37 – deals with all types of Seal Coats**
- ❑ **Has been revised for uniformity and consistency between various sections**
- ❑ **Caltrans and industry is working together**
- ❑ **Completed final draft – have minor changes to make before it will be used as NSSP and then released in July 2016 as RSS**
- ❑ **Not included in 2015 Standard Specifications print**



ORGANIZATION – OVERALL

- ❑ **Section 37-1: General - all types of seal coats**
- ❑ **Section 37-2: Chip Seals**
- ❑ **Section 37-3: Slurry Seal and Micro-Surfacings**
- ❑ **Section 37-4: Fog Seals and Flush Coats**
- ❑ **Section 37-5: Parking Area Seals**
- ❑ **Section 37-6: Crack Treatments**

ORGANIZATION – OVERALL

Section 37-2 Chip Seals

- Section 37-2.01 – General
- Section 37-2.02 – Asphaltic Emulsion Chip Seals
- Section 37-2.03 – Polymer Modified Asphaltic Emulsion Chip Seals
- Section 37-2.04 – Asphalt Rubber Binder Chip Seals
- Section 37-2.05 – Stress Absorbing Member Interlayers
- Section 37-2.06 – Modified Asphalt Binder Chip Seals
- Section 37-2.07 – Scrub Seals

ORGANIZATION – OVERALL

Section 37-3 Slurry Seals and Micro-Surfacings

- Section 37-3.01 – General
- Section 37-3.02 – Slurry Seals
- Section 37-3.03 – Micro-Surfacing
- Section 37-3.04 – Rubberized and Modified Slurry Seals

ORGANIZATION – OVERALL

Section 37-4 Fog Seals and Flush Coats

- Section 37-4.01 – General
- Section 37-4.02 – Fog Seals
- Section 37-4.03 – Flush Coats

ORGANIZATION – OVERALL

Section 37-5 Parking Area Seals

- Section 37-5.01 – General

Section 37-6 Crack Treatments

- Section 37-6.01 – General

ORGANIZATION – SPECIFIC

- Nested pyramid structure
- Each of the sections is organized in the following order:
 - ❖ GENERAL
 - ❖ Summary
 - ❖ Definitions
 - ❖ Submittals
 - ❖ Quality Assurance
 - ❖ MATERIALS
 - ❖ CONSTRUCTION
 - ❖ PAYMENT

ORGANIZATION – SPECIFIC

Section 37-1 General

- ❖ **Section 37-1.01: GENERAL**
- ❖ **Section 37-1.01A: Summary** – summarizes what is covered under seal coats
- ❖ **Section 37-1.01B: Definitions** – reserved - not used
- ❖ **Section 37-1.01C: Submittals** – details submittal requirements for seal coats
- ❖ **Section 37-1.01D: Quality Assurance** – details quality assurance requirements for seal coats

ORGANIZATION – SPECIFIC

Section 37-1 General

- ❖ **Section 37-1.02: MATERIALS** - not used – covered in individual sections
- ❖ **Section 37-1.03: CONSTRUCTION** - covers construction requirements for seal coats
- ❖ **Section 37-1.03A: General** - details general construction requirements for seal coats
- ❖ **Section 37-1.03B: Equipment** - details equipment requirements for seal coats
- ❖ **Section 37-1.04: PAYMENT** - not used – covered in individual sections

ORGANIZATION – SPECIFIC

Section 37-2 Chip Seals

- Section 37-2.01A – covers general
 - ❖ Summary
 - ❖ Definitions
 - ❖ Submittals
 - ❖ Quality Assurance
 - ✓ Quality control for aggregates and chip seals
 - ✓ Department acceptance for aggregates

ORGANIZATION – SPECIFIC

Section 37-2 Chip Seals

- Section 37-2.01B – covers materials
 - ❖ Chip seal aggregate quality requirements and related test methods
 - ❖ Chip seal aggregate retention requirements and related test methods
 - ❖ Emulsion quality requirements and related tests are covered in other sections and so are not mentioned here

ORGANIZATION – SPECIFIC

Section 37-2 Chip Seals

- ❑ Section 37-2.01C – covers construction
 - ❖ General requirements
 - ❖ Equipment requirements
 - ❖ Surface preparation
 - ❖ Placement requirements
 - ✓ General placement requirements
 - ✓ Asphaltic emulsion/binder application
 - ✓ Aggregate spreading
 - ✓ Finishing, Traffic control, sweeping
 - ✓ Excess aggregate disposal, chip seal maintenance

ORGANIZATION – SPECIFIC

Section 37-2 Chip Seals

- Section 37-2.01D – covers payment

- Sections 37-2.01A – D: apply to all types of chip seals – i.e. Section 37-2.02 through Section 37-2.07

ORGANIZATION – SPECIFIC

Sections are organized in a **nested pyramid structure**

□ General

- ✓ Summary
- ✓ Definitions
- ✓ Submittals
- ✓ Quality Assurance
 - General
 - Quality Control
 - Department Acceptance

ORGANIZATION – SPECIFIC

☐ Materials

- ✓ General
- ✓ Binder/Emulsion/Modifiers
- ✓ Aggregate

☐ Construction

- ✓ General
- ✓ Equipment
- ✓ Surface preparation
- ✓ Placement

☐ Payment

- ✓ Measurement

SUMMARY

- ❑ Section 37 – deals with Seal Coats
- ❑ Revised – for uniformity and consistency between various sections - Caltrans and industry joint effort
- ❑ Minor changes still to be made - will be used as NSSP as soon as possible and the released as RSS in next quarterly update
- ❑ REMEMBER - nested pyramid structure

SUMMARY

Nested Pyramid Structure

- ❑ **General Division – I, II and XI**
- ❑ **Division General – Division V, Surfacing and Pavements**
- ❑ **Section General – Section 36, General**
- ❑ **Specific Section General – Section 37, Seal Coats**
- ❑ **Specific Technical Section – Section 37-2, Chip Seals**

SUMMARY

For Example

- ❑ If we have a project for placing Polymer Modified Asphaltic Emulsion Chip Seals
- ❑ Can't just look at just Section 37-2.03, Polymer Modified Asphaltic Emulsion Chip Seals
- ❑ Need to look at:
 - ✓ Section 37-2.03 Polymer Modified Asphaltic Emulsion Chip Seals
 - ✓ Section 37-2.01 General (applicable to all types of Chip Seals)
 - ✓ Section 37-1 General (applicable to all types of Seal Coats)
 - ✓ Section 36 – 1 General (applicable to all surfacings and pavements)
 - ✓ Divisions I, II and XI (applicable to all projects)

Nested pyramid structure

THANK YOU !

QUESTIONS ?

