

A Survey of AASHTO COC members was conducted between March 15 and April 15, 2018 on the state of the practice for “High Content Crumb Rubber HMA mixes. 35 responses were received and tabulated in the attachment.

Suggested Survey Takeaways:

- Early adopters have not all stayed the course. This appeared to reflect some analysis of cost-benefit over time.
- Responses indicate an increased cost should be expected for wet process production in comparison to the use of polymers.
- Respondents who institutionalized some use of crumb rubber in HMA mixes reported mixed results with regard to cost leveling over time.
- A majority of respondents indicated they do not mandate the use crumb rubber in HMA mixes (90% of responses), rather it is allowed as an alternative to polymer modifications.
- Cal-Trans reported they do mandate the use of crumb rubber to comply with code. However use of the “Wet-Method” and or “Arizona Method” is not exclusively prescribed for mix production.
- Several respondents indicated there can be workability issues in comparison to polymer modified mixes.
- Few respondents have utilized SAMIs (Stress Absorbing Membrane Interlayers)in combination with high content crumb rubber mixes (17% of responses).
- Respondents, by and large, do not give SAMIs a structural value (< 5% of responses)
- Several respondents referred to formal research that their State undertook in regard to the use of crumb rubber in HMA.
- Several respondents are currently undertaking or considering undertaking efforts to pilot high content crumb rubber in HMA.