

BITUMEN EMULSION THE LATE BLOOMER

RDSC





ABOUT ROAD SCIENCE









THE COMPLETE PAVEMENT SOLUTION





WHAT IS BITUMEN EMULSION?



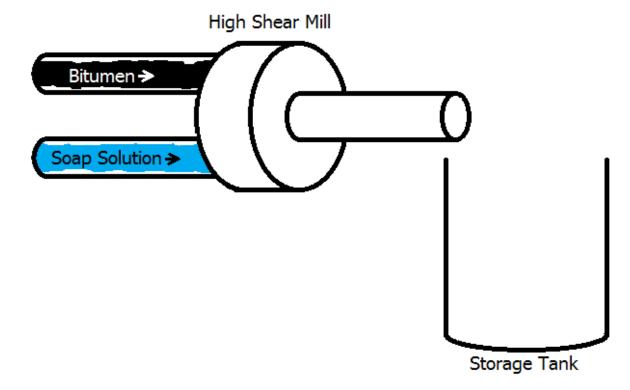
CHIP SEALS PAST & FUTURE





WHAT IS BITUMEN EMULSION?







WHY BITUMEN EMULSION?

170°C

80°C





WHY BITUMEN EMULSION?





TECHNICAL BENEFITS

HOT BITUMEN BITUMEN EMULSION



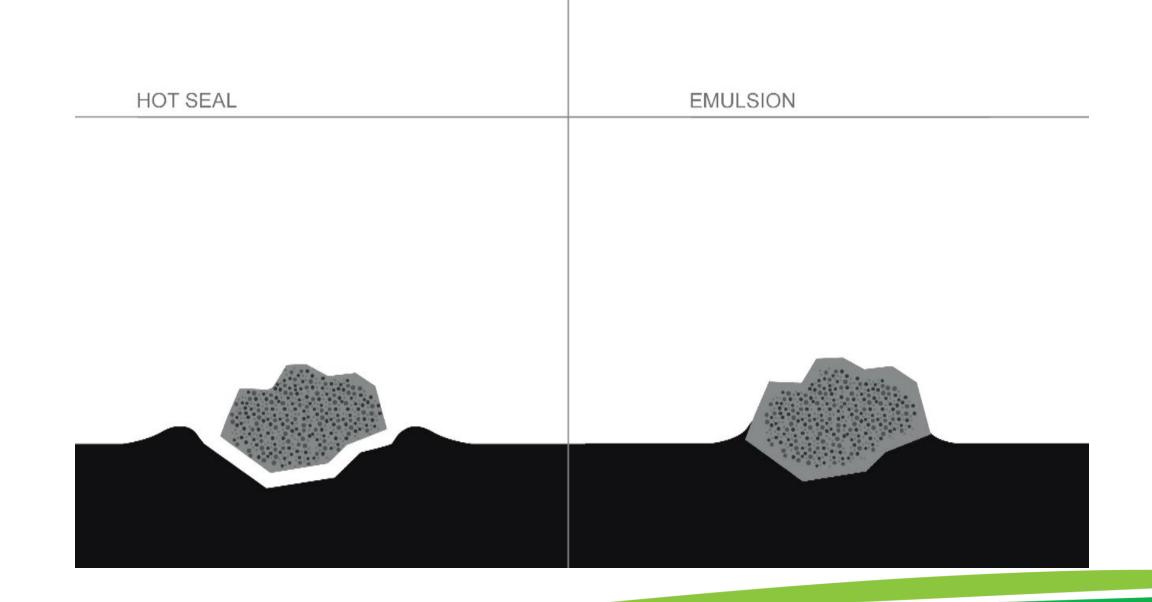


TECHNICAL BENEFITS

HOT BITUMEN BITUMEN EMULSION









THE LATE BLOOMER?

1930s First Acrylic Paint 1.4

1980s Acrylics become dominant

1930s First Bitumen Emulsion 1980s Bitumen Emulsions Revived 2010s Road Science Emulsions



TRADITIONAL LIMITATIONS (1980s)



Run Off

Streaking

Rain Resistance



RUN-OFF / SPILLS

YIELD STRESS





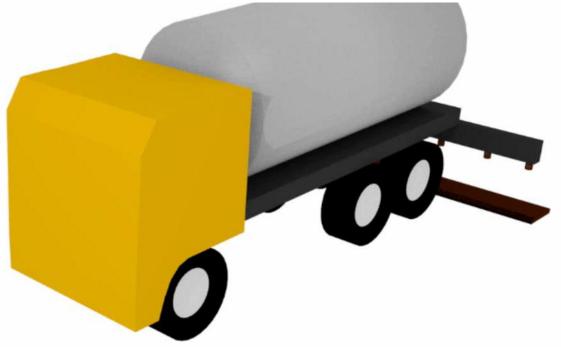






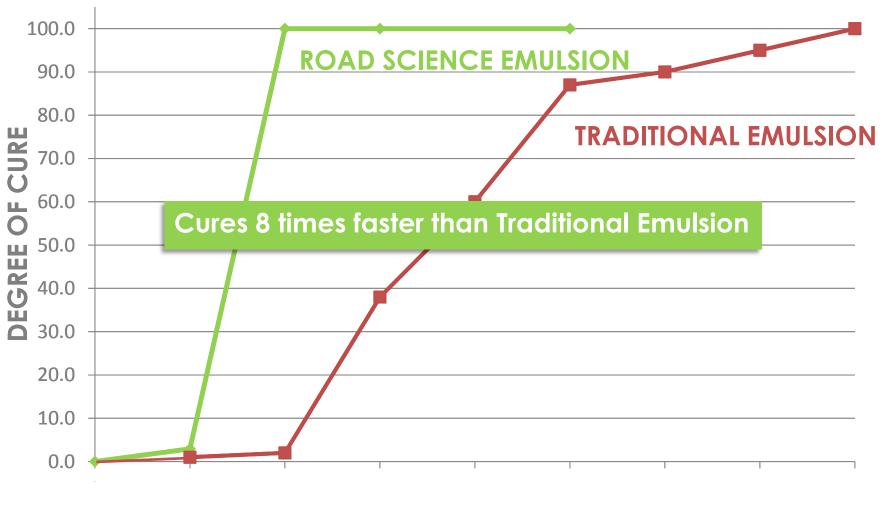


SLOW CURE / RAIN RESISTANCE









Relative Time



LIMITATIONS (TODAY)



Run Off

Streaking

Rain Resistance



SUMMARY

- APPLIED KNOWLEDGE FROM OTHER INDUSTRIES
- SOLVED TRADITIONAL LIMITATIONS
- VIABLE ALTERNATIVE TO HOT BITUMEN



THE FUTURE

- 100% EMULSION
- COLD SPRAY
- WINTER SEALING



THANK YOU

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