Pavement Marking Inspection

VDOT Materials Division

VA Asphalt Association
LINE QUALITY

- THICKNESS
- WIDTH
- COLOR
- GLASS BEADS
Pavement Markings – *Now more Critical for Automated Vehicles*
YOU WILL NEED TO LOOK AT LINE and GLASS BEADS

- PRESENCE of LINE and BEADS ARE THEY THERE?

- GOOD COVERAGE

- ACROSS WHOLE LINE?

- EMBEDMENT

- BURRIED OR ON SURFACE?
NOT ENOUGH BEADS

FEELS ROUGH - LIKE SANDPAPER

CORRECT AMOUNT OF BEADS
Good bead Distribution across the line
GLASS BEAD DISTRIBUTION ACROSS LINE

MUST BE ACROSS ENTIRE LINE –  

OR LINE WILL APPEAR NARROW AT NIGHT
Not Enough Beads

THERMO

Correct Bead Amount
TAPE should be inlaid per the MFGR – Time, Temp, Primer
Perform the PULL TEST if installation looks questionable.

EASY PULL TEST:

2 FINGER REMOVAL = BONDING FAILURE
PREFORMED THERMOPLASTIC

CHISEL TEST:

- BACKSIDE SHOULD HAVE ASPHALT ADHERED
- GOOD GLASS BEAD COVERAGE

GOOD INSTALLATION !!
THERMOPLASTIC
- MUST HAVE:
  GOOD BONDING
  GOOD GLASS BEAD COVERAGE

BACKSIDE – ASPHALT ADHERED

HAMMER TEST – NO
  SHATTERING

INSTALLATION FAILURE
PREFORMED THERMOPLASTIC

CHISEL TEST:

- BACKSIDE SHOULD HAVE ASPHALT ADHERED

- THESE STOP BARS ARE NOT BONDED TO ASPHALT = INSTALLATION FAILURE
GOOD
PAVEMENT
MARKERS !!
GOOD INSTALLATION = DEEP CUT + GOOD EPOXY COLOR
ENSURE CASTING IS INSTALLED DEEP ENOUGH IN ROAD. THIS IS SITTING UP TOO HIGH and should be REJECTED!

THIS GAP IS NOT ALLOWED!!!

MARK REJECTED RPM WITH X
Be sure epoxy is mixed correctly – consistent color.
NOT LIKE THIS !!
THIS EPOXY IS NOT MIXED CORRECTLY. WRONG COLOR

TEST IT WITH A STICK TO SEE IF IT’S HARD AFTER 15 MINUTES.
Casting hole filled with Epoxy
INSTALL AND INSPECT LIKE YOUR KIDS ARE BEHIND THIS WINDSHIELD!
GOOD INSTALLATION = DEEP CUT + GOOD EPOXY COLOR
NIGHT TIME INSPECTION

- RETROREFLECTIVITY

- COLOR

CAN YOU SEE THAT 3RD SKIP LINE?
QUESTIONS ??