

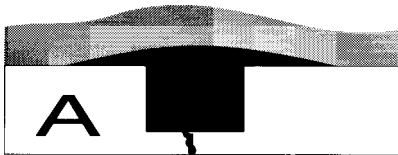
# BUMPS

in overlays don't have to happen!

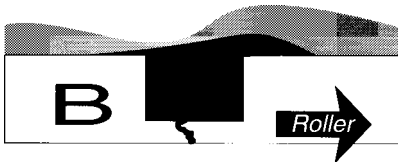
*the following is the Crafcoc recommended policy:*

“Crack sealing under an overlay is performed to prolong pavement life by preventing water intrusion into the base layers as cracks develop in the surface layer”. Crack sealing under an overlay is a method of reducing and retarding reflective cracks. By sealing cracks first you can greatly increase the life of the overlay. With these procedures come sealant placement techniques which address problems that can occur with improper sealant application. This information sheet addresses these problems.

*If you see a bump these are the most common causes:*



**CAUSE:** Too much sealant is applied and the overlay “grows” resulting in a bump which expands as it warms.  
**CURE:** Scrape the excess sealant off or apply a scratch coat of HMA prior to the overlay application.



**CAUSE:** A roller slips when it come across the sealant on transverse cracks producing a depression resulting in a bump.  
**CURE:** Do not use a vibrator roller on the initial breakdown. If the problem persists sand the sealant with concrete sand or scrape off excess sealant.

*Before an overlay is placed and bumps suddenly appear here are some Precautionary steps that should be considered:*

- 1** Check the proposed overlay thickness prior to crack sealing. If the overlay is over 2” and is applied in more than one lift, use the following crack sealing application technique. Route and seal cracks flush with the existing and surrounding pavement utilizing a sealant application shoe or squeegee. Overband should be no more than 3” wide, as thin as possible and not to exceed 1/8” thick.
- 2** If the overlay is less than 2” thick special care must be taken during crack sealing and when rolling the new asphalt.
  - A - Cracks must be routed.
  - B - Sealant must be placed flush to to the pavement surface or slightly below.
  - C - The sealant maybe squeegeed and flush filled if the band is less than 3” wide. A slight under fill is preferred.
  - D - Do not use a sealant shoe for sealant application.
  - E - When compacting the new pavement do not use a vibratory roller with the vibrator on the first pass. A rubber tire roller is preferred.
  - F - Clean dry concrete sand should be put sparingly over any squeegeed sealant.
- 3** We recommend crack sealing 6 to 12 months prior to any overlay if possible.

for more injormatton call:

\*Crafcoc assumes no liability for sealant that is improperly placed.



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