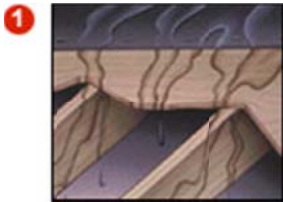


# Look for Signs of Roof Damage



If your roof is more than 15 years old, or if it shows any of these warning signs, you may already have a problem.



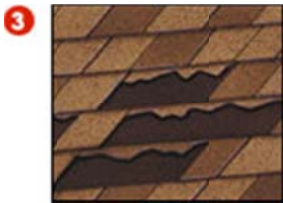
## Ceiling Spots

- \* Caused by leaks in roof
- \* Check attic or crawlspace for leaks in deck
- \* Check chimney and vents for cracks in flashing
- \* Check rafters for leaks that travel away from original source
- \* Check roof for damaged shingles



### **Damaged Flashing**

- \* Caused by improper installation
- \* Caused by drying and cracking
- \* Can usually be repaired without replacing roof



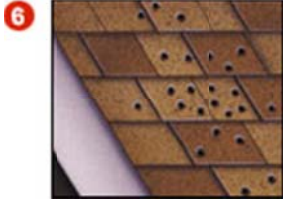
### **Missing Shingles**

- \* Caused by improper fastening
- \* Caused by exposure to high winds
- \* Can usually be replaced individually



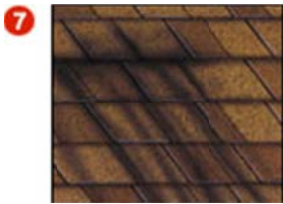
### **Buckling & Curling Spots**

- \* Caused by improperly applied felt (buckling)
- \* Caused by movement in deck (buckling)
- \* Caused by undersaturation of felt in organic-based shingles (curling)



### Blistering

- \* Caused by moisture in shingles
- \* Caused by excessive use of asphalt plastic cement



### Algae Growth

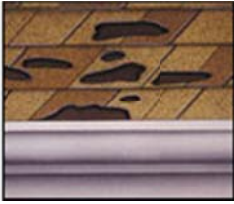
- \* Caused by growth of airborne algae deposited on roof
- \* Unightly appearance does not affect the service life of the material
- \* Common problem in warm, humid climates
- \* Algae resistant shingles available regionally



### Missing Granules

- \* Caused by absorption of moisture by mat at the core of the shingle
- \* Common problem with organic-based shingles

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## Rotting

- \* On newly applied shingles, a certain number of loose granules is normal
- \* On aging shingles, missing granules indicate need for replacement