

Table 10-1: CR Applicability

Condition		CR Applicability
Surface Defects	Raveling	Yes
	Pot Holes	Yes
	Bleeding	Yes
	Skid Resistance	Yes
Deformations	Shoulder Drop Off	No
	Rutting - Wear	Yes
	Rutting - Mix Instability	Possible, see note a
	Rutting - Deep Structural	Possible, see note b
	Corrugations	Yes
	Shoving	Possible, see note a
Load Associated Cracking	Fatigue – Bottom Up	Possible, see note c
	Fatigue – Top Down	Possible, see note c
	Edge	Possible, see note d
	Slippage	Possible, see note e
Non-Load Associated Cracking	Block	Yes
	Longitudinal	Yes
	Transverse	Yes
	Reflective	Yes
Combined Cracking	Joint Reflection	Possible, see note f
	Discontinuity	Yes
Base/Subgrade Deficiencies	Swells, Bumps, Sags Depressions	Possible, see note g
Roughness	Ride Quality	Yes
Other Criteria	All Levels of Traffic	Yes, see note h
	Rural	Yes
	Urban	Yes, see note i
	Stripping	Possible, see note a
	Poor Drainage	No, see note j

Notes:

- a) Can be corrected with additives such as cement, lime and new aggregate. Needs to be verified by a mix design.
- b) Not with CIR but can be addressed with CCPR and correction of the underlying materials.
- c) Ensure that structural requirements can be met. CR in conjunction with an asphalt overlay may be needed.
- d) Need to provide shoulder confinement after CR.
- e) As long as treatment depth exceeds the slippage plane.
- f) May not correct but will mitigate.
- g) Can be addressed with CCPR and correction of the underlying materials. CIR may not correct but may mitigate.
- h) As long as proper pavement structural design is undertaken as part of the process to ensure that the effects of future traffic are taken into account and if the CR mixture is designed to have sufficient early and long term strength. Additives (cement or lime) may be necessary to improve early strength gain.
- i) Geometric constraints may influence the type of recycling units used or whether CIR or CCPR is used.
- j) Poor drainage must be improved for CR, or any other pavement treatment, to ensure adequate performance.