



Cracks in Immature Concrete Plastic Cracking Plastic Shrinkage Cracks Plastic Settlement Cracks Construction Movement Movement of Formwork Movement of subgrade Cracks

Reasons for Cracking of Hardened Concrete **Physical Reasons for Cracking** Structural Design Issues Shrinkable aggregates **Accidental overload Drying shrinkage** Cracking due to creep Crazing Cracking due to the consideration of incorrect Chemical Reasons for Cracking of Concrete design loads **Chemical attack to Concrete Cracking due to Wrong Construction Practices Corrosion of Reinforcements** Alkali aggregate reaction **Cement carbonation shrinkage Thermal Effects - Thermal Cracking of Concrete** Freeze/thaws Cycles **External seasonal temperature variations Early thermal Contractions** Cracking of concrete caused by the rise of core temperature resulting to form delayed ettringites

