

AXIS CONSULTANTS

<u>STANDARD CIVIL ENGINEERING SPECIFICATION</u>		
ISSUED: 15-09-2012	STRUCTURAL STRENGTHENING FOR DAMAGED R.C.C STRUCTURES SPECIFICATION	REV. - 0

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1.0 SCOPE

This specification covers the requirement for structural strengthening of damaged R.C.C structures with Polymer Modified Concrete.

2. 0 NEED FOR R.C.C STRENGTHENING:

The repair and rehabilitation of damaged concrete structures is quite often in a highly aggressive environment like Mumbai associated with high level of pollution, high humidity throughout the year, high rain fall along with higher level of chloride contents in the atmosphere. Ageing of the structure and persistent use after the design life of the structure also leads to deterioration of the structures. There are various products available or repair and rehabilitation but polymer modified concrete is most cost effective for improving the high early compressive strength, tensile and flexural strength and reducing the brittle nature. Polymer-modified concrete particularly latex modified concrete such as styrene butadine, acrylic latex, polyvinyl acetate, and ethylene vinyl acetate have been widely used for structural repair and strengthening. Repair to damaged reinforced concrete elements like beams, columns, wall etc., where access is restricted and compaction is not possible and for structural strengthening by Jacketing of RCC columns to increase load carrying capacity are areas of application of micro concrete.

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3.0 REPAIR PROCEDURE:

The step by step approach for repair is given as follows:

Repair of RCC members using Polymer Modified Mortar

