



**DEPARTMENT OF BUILDING SURVEYING
FACULTY OF ARCHITECTURE, PLANNING AND
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TITLE OF DESSERTATION:

**CONCRETE REPAIR FOR BUILDING
MAINTENANCE WORK**

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ABSTRACT

Concrete is made up of three basic components which are water, aggregate (rock, sand or gravel) and Portland cement. Cement usually in a powder form, act as a binding agent when mixed with water and aggregates. This combination or concrete mix will be poured and harden into the durable material with which we are all familiar. Concrete is a versatile building material that is cast inexpensively and is durable, strong and takes the shape of the form in which it is cast. Most concrete members are cast on site and in their final location. Marginal works and construction procedures cause imperfections that required repair. Natural forces and use in service cause deterioration or damage which must be repaired or replaced during maintenance of the structure. The choice of a repair material must consider thermal compatibility with the base concrete, durability requirements, service conditions, chemical and electrical environment, shrinkage characteristics, modulus elasticity and placement conditions. Most concrete repairs involve the removal of concrete which may either have deteriorated or have a construction defect or be damaged. There are various methods of removal and repair which are economic, safe and easy which suitable with the concrete damage or crack.

TABLE OF CONTENTS

CHAPTER	TITLE	PAGE
	DECLARATION	ii
	ACKNOWLEDGEMENT	iii
	ABSTRACT	iv
	ABSTRAK	v
	TABLE OF CONTENTS	vi
	LIST OF TABLES	xii
	LIST OF FIGURES	xiii
1	INTRODUCTION	
	1.1 Preface	1

1.2	Problem Description	3
1.3	Project Objectives	4
1.4	Project Scope	5
1.5	Project Significance	6
1.6	Conclusion	7
2	LITERATURE REVIEW	
2.1	Introduction	8
2.2	Building Materials	9
2.3	Concrete Material	9
2.3.1	Reinforced Concrete	9
2.3.2	Mass Concrete	10
2.3.3	Steel	10
2.3.4	Sand	11
2.3.5	Rock	13
2.3.6	Wood	14

2.3.7	Brick and Block	15
2.3.8	Metals	16
2.3.9	Glass	16
2.3.10	Cement Composite	17
2.3.11	Concrete	18
2.4	Concrete Use in Building Structural Element	20
2.4.1	Column	20
2.4.2	Beam	21
2.4.3	Foundation	23
2.4.4	Wall	24
2.5	Types of Concrete Defects and Causes	26
2.5.1	Crack	26
2.5.2	Excess Water	28
2.5.3	Segregation	30
2.5.4	Drying Shrinkage	31
2.5.5	Plastic Shrinkage Crack	35