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TABLE OF CONTENTS

CHAPTER - 10 PAINTING

10-1	Paint	297
10-2	Ingredient of Paint	298
10-3	Essential and Specific Properties of Good Quality Paint	300
10-4	Elements of a Good Painting Job	301
10-5	Surface Preparation	302
10-6	Kinds of Paint, Uses and Area Coverage	305
10-7	Estimating Your Paint	311
10-8	Paint Failures and Remedy	317
10-9	Wall Papering	320

CHAPTER - 11 AUXILIARY TOPICS

11-1	Accordion Door Cover	323
11-2	Glass Jalousie	325
11-3	Water Tank	328
11-4	Wood Piles	329
11-5	Bituminous Surface Treatment	331
11-6	Filling Materials	332
11-7	Nipa Shingle Roofing	334
11-8	Anahaw Roofing	338

CHAPTER 1

CONCRETE

1-1 PLAIN AND REINFORCED CONCRETE

Concrete is either Plain or Reinforced. By definition, Plain Concrete is an artificial stone as a result of mixing cement, fine aggregates, coarse aggregates and water. The conglomeration of these materials producing a solid mass is called plain concrete.

Reinforced Concrete on the other hand, is a concrete with reinforcement properly embedded in such a manner that the two materials act together in resisting forces.

The Different Types of Concrete Used in Construction are :

1. The Ordinary Portland cement.
2. The Rapid Hardening Portland Cement which is preferred when high early strength concrete is desired.
3. The Blast Furnace or Sulfate Cement used on concrete structures designed to resist chemical attack.
4. The Low Heat Portland Cement used for massive sections designed to reduce the heat of hydration.
5. The Portland Pozzolan Cement with a low hardening characteristic concrete.
6. The High Alumina Cement.

The High Alumina Cement is sometimes called aluminous cement or cement fundu. Its chemical composition is different from that of Portland cement for having predominant alumina oxide content of at least 32% by weight. The alumina lime is within the limit of 0.85% to 1.3%.

1

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This type of cement has a very high rate of strength development compared with the ordinary Portland cement. Aside from its rapid hardening properties, it can resist chemical attack by sulfate and weak acids including sea water. It can also withstand prolonged exposure to high temperature of more than 1,000°C. Alumina cement however, is not advisable for mixing with any other types of cement.

The Main Composition of Cement are:

1.6	to	65%	Lime
18.0	-	25%	Silica
3.0	-	8%	Alumina
3.0	-	5%	Iron oxide
2.0	-	5%	Magnesia
1.0	-	5%	Sulfur trioxide

AGGREGATES

Aggregates for concrete work are classified into two:

1. **Coarse Aggregate** such as crushed stone, crushed gravel or natural gravel with particles retained on a 5 mm sieve.
2. **Fine Aggregate** such as crushed stone, crushed gravel, sand or natural sand with particles passing on a 5 mm sieve.

CONCRETE

The coarse aggregate should be small enough for the concrete mixture to flow smoothly around the reinforcement. This is referred to as workability of concrete.

1-2 THE PRINCIPLES OF CONCRETE MIXING

The purpose in mixing concrete is to select an optimum proportion of cement, water and aggregates, to produce a concrete mixture that will meet the following requirements:

- | | |
|----------------|---------------|
| 1. Workability | 3. Durability |
| 2. Strength | 4. Economy |

The proportion that will be finally adopted in concrete mixing has to be established by actual trial and adjustment processes to attain the desired strength and quality of concrete required under the following procedures:

1. The water cement ratio is first determined at the very first hour of mixing to meet the requirements of strength and durability.
2. The cement-aggregate ratio is then chosen and established to satisfy the workability requirements. Workability, means the ability of the fresh concrete to fill all the voids between the steel bars and the forms without necessarily exerting much effort in tamping.

Laboratory tests showed that the water-cement content ratio

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