

## PRODUCT DESCRIPTION:

**MULTICON<sup>®</sup> MC60** formulation incorporates the most advanced cement chemistry, fillers, additives, shrinkage compensating technology. The product is supplied as a one component system for on-site mixing with clean water to give the required consistency for application by pumping, pouring or trowelling. The aggregates are chosen to facilitate mixing and to maximise flow and minimise the risk of segregation and bleeding. The product is supplied in two grades containing different aggregate grading. **MULTICON<sup>®</sup> MC60(G)** is a grout with a maximum aggregate size of 2.5mm for application thickness to 100 mm. **MULTICON<sup>®</sup> MC60(A6)** is micro concrete with a maximum aggregate size of 6mm for larger depth in excess of 50 mm.

## USES:

**MULTICON<sup>®</sup> MC60** is a high performance polymer modified non-shrink, cementitious formulation supplied in two grades. **MULTICON<sup>®</sup> MC60(G)** is a free flowing grout and **MULTICON<sup>®</sup> MC60(A6)** is a micro concrete. Both grades can be pumped, poured or trowelled for large areas of concrete repair and heavy-duty application beneath base plates, plinths and stanchion bases.

Damaged structures often need repair with high strength concrete. Conventional concrete used in the jacketing shutters often give to honey combing. It also has poor adhesion to old structures and may not be free flowing required for filling up recess of affected members. **MULTICON<sup>®</sup> MC60** has excellent free flowing properties and absolute waterproof. It can be used to repair damaged concrete columns, beams, honey-combed structures etc. Other uses are in industrial floor repairs bridges, roads, drive ways etc.

**MULTICON<sup>®</sup> MC60** offsets the shrinkage associated with cementitious materials and thus ensuring stress free surface.

## ADVANTAGE:

✓ **INNOVATIVE:**

Incorporate the latest proven cement chemistry, polymers and special fillers technology.

✓ **EASY TO USE:**

Materials are pre-packed and only require mixing on site with clean water to give the required consistency for pouring, pumping or trowelling.

✓ **HIGH STRENGTH:**

Ultra-fine Portland cement cures rapidly to give high early and long-term strength development enabling quick reinstatement.

✓ **LOW PERMEABILITY:**

Dense matrix provides excellent protection from the ingress of acid gases, moisture and chlorides.

✓ **BOND STRENGTH:**

Good bond with parent concrete hence monolithic application.

✓ **NON-SHRINK:**

Dual expansion mechanism compensates for shrinkage in the plastic and hardened state.

✓ **CHLORIDE FREE**

**TECHNICAL DATA:**

Density: 2200 kg/ m<sup>3</sup>

Application Temperature: 10-40 °C

Coverage: 20 kg/m<sup>2</sup> at nominal thickness of 10 mm.

Yield: 12.5 lit /25kg sack

Product	W/P Ratio	Compressive Strength N/mm <sup>2</sup>				Bond Strength N/mm <sup>2</sup>
		1D	3D	7D	28D	
MULTICON MC60	0.13	15	-	-	65	2.5

**APPLICATION DATA:**

Surface Preparation

Cut back all concrete to be repaired to a thickness of 50mm at the minimum and ensure edges are straight. Remove all dust, debris by flushing with water, keeping the surface saturated.

Priming / Bonding

Apply Bondcoat AC as a primer on well prepared surface.

Mixing

Place 80% of the total water required in a concrete mixer( Approximately 4 lit water requirement). Add all MULTICON<sup>®</sup> MC60, slowly mix for 2-3 minutes. Add the balance quantity of water and mix to obtain homogeneous trowellable / free flowing consistency mix as per uses.

Placing

Place the mixed material in the form. Care should be taken to see the gaps in the shutter forms are effectively sealed. When the surface needs to be plastered hack the surface immediately after removal of the shutter.

Curing

Place a polythene sheet on the repaired surface to prevent premature evaporation of water. Cure by water ponding, curing membrane or wet hessian cloth for at least 7 days.

### Cleaning

Wash tools with water to remove any left out **MULTICON<sup>®</sup> MC60**.

**Note:** Performance of the products depends on strict adherence to "Multichem Repair Guidelines". Company is not responsible for any deviation from such guidelines, which may lead to products failure. The yield/ coverage given above is for guidance only. The actual consumption at site should be ascertained by field trial.

### **WARRANTY**

Multichem warrants **MULTICON<sup>®</sup>** to be free from manufacturing defects as defined in this warranty. Manufacturing defects are considered to be those defects that occur due to the quality of the ingredients or from the manufacturing process itself. This warranty does not include labor costs and other costs or expenses associated with the removal or installation of **MULTICON<sup>®</sup>**.

Because the Multichem does not perform the actual installation, it cannot be held responsible for the results of the application. Multichem specifically disclaims problems that occur due to weather conditions, structural movement, structural design flaws and application techniques.

This warranty is in lieu of all other warranties expressed or implied including the warranty of merchantability and fitness of purpose and of all other obligations or liabilities on Multichem part. Multichem neither assumes nor authorizes any person to assume for Multichem any liability in connection with the sale and installation of **MULTICON<sup>®</sup>**.

Because of constant improvement of manufacturing techniques and formulations, Company reserves rights to change this datasheet and its contents without prior notice.