



Benefits

Ready-to-use: Just add water to the premixed Micro concrete.

Ideal for restricted spaces: Easily pourable in confined areas.

Flowable consistency: Self-compacting, eliminating the need for vibration.

Shrinkage compensation: Controlled expansion minimizes shrinkage and settlement during setting.

High strength: Achieves strong initial and ultimate compressive strength.

Moisture-resistant: Provides excellent protection against moisture ingress.

Enhanced durability: Ensures compatibility and long-lasting durability with existing concrete.



Application areas

- Repair of damaged reinforced concrete elements, such as beams, columns and walls, where access is limited and compaction is challenging.
- Jacketing of RCC columns to enhance load capacity.
- Rapid repair projects.
- Overlay for existing surfaces in rehabilitation projects to enhance durability and aesthetics.
- Available variants are 40 MPa, 60 MPa and 80 MPa.







Add 3.25-3.5 litres (12-14% of weight) of clean water to a bucket for each 25 kg bag.



Use within 30 minutes of mixing.



Gradually mix the entire bag of Ramco Micro Concrete with a low-speed stirrer (under 500 rpm).



For application thickness more than 50 mm recommended to add 30-40% of 6 mm aggregate.



Stir for 3 minutes until smooth, then rest for 2 minutes. Stir again for 2 minutes before applying. (Do not add sand or other materials).

Mixing Instructions

Storage instructions: Store in a covered, dry and moisture-free place.

Application Guidelines



Cut damaged areas back to solid base; ensure surfaces are clean, dry and dust-free.



Clean reinforcement steel with a wire brush.



Apply Ramco Super Bond Epoxy to steel and old concrete
for stronger bonding.



Apply corrosion inhibitor to clean the damaged rod.



Use Ramco Super Grout -Epoxy to attach new reinforcement to the old slab.



Pour the mixed Ramco Micro Concrete immediately. Avoid vibration or compaction, ensuring a continuous pour.

Technical Specifications

Physical Properties	Standards	Typical Values
Colour	-	Grey Colour
Dry Density	Lab Developed Method	1200 - 1300 Kg/m³
Percentage of water to be added by weight	-	15 - 16%
Flow with the prescribed water percentage	Lab Developed Method	240 - 260 mm
Modulus of Elasticity	ASTM C-469-02e1	32490 N/mm²
Shrinkage %	-	Compensated
Initial Setting Time	IS 4031 Part 5	145 minutes
Final Setting Time	ACTM C 500 10 (2010)	450 minutes
Flexural Strength @ 28 days	ASTM C-580-18 (2018)	4 - 6 N/mm²

Compressive Strength details (ASTM C-109-21)

Days	M40	M60	M40
3 Day	18 - 20 N/mm²	20 - 25 N/mm²	45 - 50 N/mm²
7 Day	30 - 35 N/mm²	45 - 50 N/mm²	65 - 70 N/mm²
28 Day	45 - 50 N/mm²	65 - 70 N/mm²	85 - 90 N/mm²

Note: i) The compressive strength test mentioned is tested only for 80 MPa variant.



Right Products for Right Applications



