



SILICO Flow is a dry ready mix cementitious based product formulated for use in repairs/restoration of areas where the concrete is damaged. It can be used where movement is restricted and it is difficult to pour/place conventional concrete in the area to be repaired. It is pourable mortar with high flow, dual shrinkage compensated and high strength specially formulated for repairs and restoration of damaged or weakened structural concrete members.

SILICO Flow is ready to use Drymix Flowable Micro-concrete in which only addition of plain water at site is required obtaining a non-shrink free flowing repairs micro-concrete. This product contains performance enhancing additives which provide controlled expansion characteristics in the plastic as well as hardened state, reducing crack formation and minimize water demand.

TECHNICAL PARAMETERS

Appearance	Grey Free Flowing Powder
Type of Sand	Precisely graded Gujarat River Sand
Sand Gradation	0 mm - 3 mm
Wet Density	2200 kg/m ³ - 2300 kg/m ³
Compressive Strength	28 days: 40MPa
Grades Available	40MPa, 60MPa and 100MPa in 28 days
Shrinkage Compensated	Dual Shrinkage Compensated
Water Powder Ratio	0.13 - 0.15
Workability	Free Flowing at Specified W: P ratio mixed in high shear mixer
Pot Life	20 mins - 30 mins (depending on weather conditions)
Shelf Life	3 months from the date of manufacturing, if stored in proper sealed bag away from moisture
Packing	25 Kg per bag

APPLICATION

SILICO Flow micro-concrete can be used for repairing or restoring damaged RCC elements like beams, columns etc. where compaction is not possible and access is restricted this can be used for increasing the RCC column load bearing capacity by method of Jacketing.

It has been formulated and designed for application in medium and large volume repairs/restoration of thickness typically ranging from 5mm to 100mm. This product has to be applied in layers whose thickness generally range from 5mm to 25mm. Greater thickness is also achievable depending on the nature of repair, location and the volume of exposed rebars and the final formulation of the product designed for the customer.

BENEFITS

- Consistent performance is assured since the product is formulated, designed and manufactured in the factory controlled environment.
- High initial strength and sustained long term performance and strength.
- This product is Dual Shrinkage Compensated to reduce the risk of cracking.
- Self-flowing and Free Flowing (hence does not require any additional compaction).
- Extremely low permeability to provide maximum protection to the embedded steel reinforcement.
- Strength and Durability Designed to match the parent substrate.

USES

Dense reinforcement area where conventional concreting is very difficult.

For Repairs or Restoration or Rehabilitations or Jacketing of tight/congested RCC Reinforcement.

METHOD OF APPLICATION

- Clean the surface and remove loose concrete, dust, oil, paint, grease, waterproof coating etc.
- Expose any corroded steel in repair area and remove all scale and corrosion deposits. Apply Rust Remover for rust free bars.
- For Cathodic Protection, apply **Epoxy Zinc Primer** over the cleaned re-bars and allow it to dry before pouring of **SILICO Flow** Micro Concrete.
- Saturate the substrate with water to prevent absorption of water from the mixed material.
- Add around 80% to 85% of the predefined amount of water in the mixing vessel. Start addition of **SILICO Flow** powder slowly under continuous mixing, preferably in a paddle mixer or a slow speed mixer. Keep mixing for 2 minutes. Add balance quantity of 15%-20% of mixing water and again mix for another 2-3 minutes to form homogeneous, free flowing uniform and lump-free mix. Allow the mix to rest for 2-3 minutes and then remix for a minute or two before applying.
- Shuttering has to be water tight to avoid any material loss and abnormal shrinkage or honeycombing.
- Start the pour immediately and use the material within 20 minutes of mixing. Remove the shuttering preferably after 24-48 hours (depending on weather conditions).
- Cure the repaired concrete for minimum 7 days or use a high quality curing compound for curing.

REPAIR USING SILICO FLOW MICRO CONCRETE



WARRANTY

The Products supplied by the Company are warranted to comply with the Product Specifications mentioned in the Product Brochure, provided they are applied and used in conformance with the processes and procedures described in the Brochure and as per the Standard Civil Engineering Practices.

In the unlikely event that the Products are found to be not in compliance with the mentioned specifications, the Company undertakes to replace the Products that are specifically determined to be non-compliant. Any suspected defects or non-compliance of the Products must be reported to the Company in writing within 72 hours of being detected or within 45 days of the supply of the Products, whichever is earlier. The Company shall have the right to inspect the area where the suspected defects are detected and in case any such suspected defect is determined to be caused specifically due to a deficiency in the Products supplied by the Company, the Company undertakes to provide replacement only for the specific area where the defective Product was applied, and not for the whole room, floor, building, or project where the Company's Products may have been used.

Since the Company does not have control over the installation or application or end use of the Products, the Warranty shall not cover any defects that may be caused due to defective or faulty or unskilled workmanship, application, curing, or treatment of the Company's Products. The Warranty is limited only to replacement of the Products in question and does not cover any incidental and consequential costs or damages including, but not limited to, the costs of removal and reapplication of the Products, delays, loss of profits, or any other liabilities that the purchaser may incur towards any third parties.

The above Warranty is the complete set of Warranties offered by the Company on its Products and overrides any other Warranties that may be implied or expressed in any other Product Literature or that may erroneously be inferred by the purchaser through interactions with the Company's representatives or with any consultants, architects, etc.

The Company may, in the interests of customer service, relax the above Terms of Warranty. Any such relaxation shall be at the sole discretion of the Company and shall not be taken to be a precedent for the future. Such relaxation can only be authorized in writing by the CEO / Directors of the Company and no Company representative shall have any rights to relax the Terms of the Warranty without explicit authorization in writing from the CEO / Directors.

DISCLAIMER

All recommendations, suggestions, statements and technical data provided in this Leaflet are based on the best current knowledge available and are given for illustrative and informative purposes only and the Company does not bear without any responsibility for any loss or damages that may be caused by the use / misuse of such data.

It is assumed that all Standard Civil Engineering Practices shall be adopted for the use and application of the Company's Products and all information provided in this Leaflet is based on the above assumption. The Company shall not be responsible for any loss or damages that may be caused by a deviation from the Standard Civil Engineering Practices or by any use or application of the Company's products not in consonance with the information provided in this Leaflet.

The Company supplies products as per the Specifications provided in this Leaflet, and all the information in this Leaflet is for general guidance of the purchasers only. It is not possible, in this Leaflet, to provide information with respect to all potential uses and applications of the Company's Products and for the various site conditions where the Products may be used.

Therefore, the Company makes no claims herein as to the particular suitability or fitness of the Products for specific applications or purposes. The Company may be contacted directly, if any additional information is required for any specific use or application of its Products, prior to the purchase and use of the Company's Products by the purchaser.

The Company is continuously striving to improve and develop its products to better meet the industry requirements and to provide superior performance. Therefore the Company reserved the right to modify or improve the Products' specifications or the information in this Leaflet at any time, without notice. The latest Products' specifications and information can be obtained by directly contacting the Company.

The Company, as used above, shall refer exclusively to M/s Precise Conchem Private Limited as represented by its Board of Directors, and any communication directed to the Company may be preferred to the contact details of the Company, as provided in this Leaflet.



MANUFACTURERS OF POLYMERISED SPECIAL DRYMIX MORTARS AND PLASTERS

Internal & External Plasters | Light Weight Block Jointing Mortars | RCC Repair Mortars | Micro Concrete

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