



Shrinkage Compensated, Free Flow, Expansive, Waterproof, High Strength Micro-Concrete

General

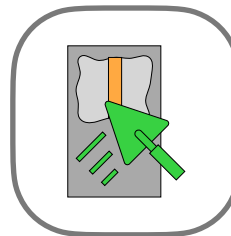
SS – StructoCrete NS is a one component, shrinkage compensated, free flow, high strength, waterproof microconcrete, which can be used for a variety of operations, where strong, reliable, impermeable connections are required in repairs and rehabilitation. **SS – StructoCrete NS** ensures loads and forces of various kind are transferred between structural elements, so that the connection can be utilized in a reasonably short time and a reasonably firm, waterproof and corrosion-protected connection is obtained in those areas which are no longer accessible later, such as columns, beams and slabs.

SS – StructoCrete NS is specially formulated to meet the requirements described above, owing to the selection of particularly suitable cements, special strength enhancing additives, polymer binders and well – graded aggregates.

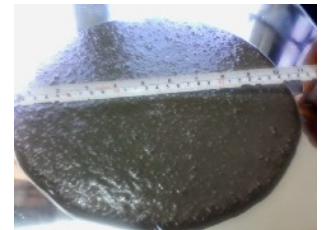
SS - StructoCrete NS benefits the user by being easy to place and compact, provides early stripping of formwork, is non-corrosive, is suitable for both compressive & flexural loads, ensures seamless load transmission through connection, ensures a precise, chemically resistant, watertight load bearing connection that most importantly does not crack.

Product Features

- High flow and stability
- Excellent early and final strengths
- Chloride free, de-icer resistant
- Shrinkage compensated to ensure force fit and high load bearing capacity
- Sets and gains strength rapidly
- High density
- Excellent resistance to water, alkalis, oil and salts
- Easily adheres to steel and concrete
- Easily withstands high loads and vibrations after complete curing



Concrete Repair



Areas of Application

- Repairing spalled or honeycombed concrete
- Repairing damaged beams, columns, slabs, etc.
- Micro-piles, abrasion resistant floors, jetties
- Filling construction joints, corners, form holes, etc.
- Precast concrete connections
- Structural Jacketing [structural elements or piles]
- Precast concrete blocks, pavers & pipes
- Soil & rock anchors
- Connections between bridge bearing & foundations
- Various civil & mechanical applications / installations



Areas of Application

Specification Keywords	Shrinkage Compensated, High Strength, Non-Shrink, Free Flow, Expansive, Waterproof, Micro-Concrete
Delivered As	Grey Powder
Storage Instructions	Store in a cool, dry area away from sunlight in original packaging
Shelf Life	12 months
Post Use	Empty packaging completely. Dispose as per local regulations. Refer MSDS for suggestions.
Packing Size	30 kg

Assess Build Chem Private Limited



Hazards and Safety



Technical Data

Sp. Gravity	2.0 ± 0.05
Min. Use Temperature	20°C
Pot Life	25 to 30 Minutes
Setting Time	4 to 8 hours depending on ambient temperatures
Compressive Strength	> 60 N/mm ² in 28 Days
Flexural Strength	> 7 N/mm ² in 28 Days
Mixing Ratio	14 to 16% Water by weight of Powder depending on consistency requirements.
Consumption	2.0 kg Powder / liter Volume.

Instructions for Use

Prior to use, adequate surface preparation is needed. The substrate should be structurally sound, free from oils, grease, dust or curing compounds, etc. The cracked surfaces should be free from paints and laitance. The substrate should be damp, not saturated prior to placement of **SS – StructoCrete NS**.

Weigh out the water and **SS – StructoCrete NS**. Add the powder to the measured water and not vice-versa as it helps in dispersion of the polymers. Mix Mechanically for 2 to 3 minutes to get a flowable grout. Water if needed can be added to get the correct consistency.

After the reinforcement and dowels for the element is secured, a watertight formwork has to be erected before the microconcrete is placed. Extend the formwork a few cm over the edge of the element to prevent overflow. Wet the surfaces of the formwork and concrete. For connection thicknesses of upto 10 cm, use **SS – StructoCrete NS** directly.

For higher thicknesses, ask us for suitably graded aggregate. Pour or pump in **SS – StructoCrete NS** from one side into the formwork. Avoid any vibrations to the material till 2 hours after placement. Mix and use complete bags for best results.

Safety and Precautions

- Mix only small quantities that can be used within 30 minutes.
- Water should not be added to hardened grout.
- Higher temperatures accelerate the hardening and lower temperature delays it.
- The mortar requires adequate protection from drying out and needs curing. Contact us for any other special applications.
- The grout is expansive and needs to be restrained on open sides.
- Take suitable safety precautions at all times. Always wear protective goggles, safety shoes, masks and gloves.
- If inhaled, move immediately to fresh air. In case of skin or eye contact, flush immediately with water for 15 minutes.
- Remove contaminated clothing and shoes and call a physician.
- Clean up promptly after job is complete. Clean equipment with water and allow to dry in a well-ventilated area. Allow rags etc. to dry in a well-ventilated area out of the reach of children and pets.
- Local, state and federal regulations should be consulted for proper disposal procedures.