

PRODUCT

SUBCOM 150 Underwater Epoxy Compound

DESCRIPTION

SUBCOM 150 is a two pack, 100% solids, fluid underwater curing epoxy compound for pressure injection grouting or, mixed with selected aggregates, to form mortar for general repairs.

USES

Pressure injection grouting:

- Of above and underwater cracks and voids in concrete structures.
- Between structure and formwork to restore the structure to its original shape.

Underwater mortar:

- Mixed with selected aggregates to form general purpose repair mortar: filling voids, fixing equipment, rebuilding degraded structures, etc , when mixed with selected aggregates (quartz sand, gravel, hard minerals, mixing ratio in 1:1 to 1:4 p.b.w depending on the size of aggregates)

SPECIFICATION

- Form:	Two packs to be mixed immediately before using
- Colour	: Brick red.
- Mixing ratio:	3 parts "A" to 1 part "B" by weight.
- Density:	$1,65 \pm 0,05 \text{ Kg/dm}^3$.
- Solids content:	100%.
- Viscosity:	40 - 45 Poises.
- Pot life (200 gr. mass at 23°C)	30 mins.
- Touch dry:	8 hours.
- Full cure:	7 days.
- Compressive strength (EN 12190)	> 65 MPa
- Flexural strength (EN ISO 527)	> 40 MPa
- Elastic modulus (EN ISO 527).	>7 GPa
- Adhesive strength:	
to dry and wet concrete:	>20 MPa (100% concrete failure).
to dry steel	>3,5 MPa
to steel underwater	>1,6 MPa
- Application Temperature:	Not recommended when ambient and/or surface temperature is below +5°C and falling or exceeding 35°C.
- Storage life:	24 months (minimum) if stored in the original, tightly sealed packs.
- Packing :	5 and 20 Kg units



Characteristics of SUBCOM 150 mixed 1:2 by weight (1dm³ mass) with aggregate

- Pot Life:	60 min.
- Solids content:	100%.
- Density:	2,1 Kg/dm ³ .
- Flammability:	non - burning.
- Full cure:	7 days.
- Compressive strength:	>60 MPa.
- Flexural strength	>30 MPa.

CHEMICAL RESISTANCE

SUBCOM 150 has excellent chemical resistance to:

- Fresh, salty and demineralized waters.
- Anti-freeze liquids, oils, greases, gasolines, etc.
- Alkalis.
- Acids at medium concentration.

HOW TO USE

SURFACE PREPARATION

Surfaces must be free from loose materials, dirt, dust, laitance, grease, oil, rust and other contaminants.

The recommended methods of cleaning are:

- Grit blasting.
- High pressure water jetting.
- Mechanical brushing.

MIXING

Check uniformity of each component and stir parts "A" and "B" separately. Mix only the quantity of material that can be used before expiration of pot-life. For standard quantities, pour all of part "B" into can containing part "A". Mix thoroughly using a mechanical low speed mixer with a paint mixing paddle until material attains uniform consistency and colour. Carefully scrape the sides and bottom of the containers while mixing. Thorough mixing will take 3 to 5 minutes. For smaller batches check uniformity of each component, stir parts "A" and "B" separately and thoroughly, measure the two components as specified on the label into a clean container and proceed as above. A perfect uniform mixing must be obtained.

When SUBCOM 150 is used to prepare epoxy mortar always mix Parts "A" and "B" together before adding the dry aggregates.

APPLICATION

Follow normal good practice when applying SUBCOM 150:

- For injection
 - For small quantities with an "injection pot", the compound is pumped via a hose into the void to be filled. For large quantities the utilization of airless pump is suggested.



- For Mortar
 - After thorough mixing, the mortar is applied evenly over the desired area by means of trowels or screeds or poured between structure and formwork or casted into the voids to be filled up.

CLEAN UP

Clean all tools and equipment immediately after use with “SOLVENT OMNIA” or toluene or acetone

HANDLING AND TOXICITY

"A" and "B" Component For Industrial Use Only!

Skin contact should be avoided by wearing impervious gloves (rubber or disposable polyethylene) and by using suitable goggles for eyes; barrier creams such as Kerodex K7 may also assist in offering additional protection. Any accidentally contaminated skin areas should be cleansed immediately with soap and water and/or a suitable resin removal cream. For eyes, flush with plenty of water and get medical attention immediately.

The use of solvents for skin cleansing should be avoided.

All information and direction contained in this technical data sheet are given in good faith and are based on the best known practical test.

SINIT when having no control over transport, storage, handling, use and application of its product, will disclaim any responsibilities for any unsatisfactory results obtained.

All tests have been carried out at 23 °C

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These data supersede all previously published data.

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