

VARABOND OTN

EPOXY RESIN BASED OLD TO NEW CONCRETE BONDER

DESCRIPTION

VARABOND OTN is a specially formulated epoxy resin based system blended with fine Inert fillers. It is supplied as a two component material in pre-weighed quantities ready for on-site mixing and use.

USES

VARABOND OTN is primarily intended as a bonder for old concrete to new freshly laid concrete. It may also be used as a primer for placing **VARAPOXY** on dry as well as damp substrates.

ADVANTAGES

- ◆ **Quality:** Factory quality controlled pre-weighed quantities which reduces site errors.
- ◆ **Adhesion:** Excellent adhesive for bonding old concrete to new concrete in load bearing as well as non-load bearing applications.
- ◆ **Waterproofing:** The cured interfacial surface is impermeable to water, moisture, chlorides, etc; and thus provides water proofing barrier for the freshly laid concrete surfaces.

TYPICAL PROPERTIES

- ◆ **Pot life:** 50 minutes at 25° C.
- ◆ **Open Time:** 3-8 hours depending on temperature and humidity.
- ◆ **Bond Strength:** As per **ASTM C-882-99** is more than 10.5 N/mm².
- ◆ **Initial Cure:** 24 hours.
- ◆ **Full Cure:** 7days.
- ◆ **Density:** 1050 kg / M³
- ◆ **Min . App. Temp:** 5° C.

CHEMICAL RESISTANCE

The cured surface of **VARABOND OTN** is resistant to most aqueous systems, sewage, fresh water

seawater alkalis diluted acids mineral oils vegetable oils, fats, ammonia and formaldehyde.

INSTRUCTION FOR USE

All grease, oil, chemical contamination, dust, laitance and loose concrete must be removed by scabbling or light bush hammer. If necessary, acid etching using "**VARACLEAN**" followed by thorough rinsing is recommended. Metal surfaces should be fully degreased followed by grit blasting to **BS-4232: Second Quality** or **SA2.5 (SIS O5 5900)**. All reinforced bars should be coated with a corrosion resistant primer at the interface level. All free-standing water should be removed and the surface should be dabbed with some absorbent material.

Mixing: The total base and hardener components should be thoroughly mixed in the base container. When using in hot weather conditions or when required to be applied by spray or to improve brush ability upto 10% i.e. 300 ml per pack of clean drinking water may be additionally added. The open time becomes slightly longer by this addition. However the bonding characteristics are not altered in any way.

Application: After mixing, apply immediately to the previously prepared substrate using a short haired stiff nylon brush, ensuring thorough wetting of surface. It is essential that new concrete is laid whilst the coat of **VARABOND OTN** is still tacky i.e. generally about 3 to 8 hours depending on temperature and humidity conditions present during this operation.

PACKAGING & YIELD

VARABOND OTN is available in 1 kg pack – 3 packs / carton.

Yield: 2.850 litres /3 Kg.

Coverage: **VARABOND OTN** is recommended At a spread rate of 2.5 - 3.5 M² / kg.

PRECAUTIONS

Cleaning: Spillages should be absorbed with sand or earth etc; and disposed in accordance with local regulations. Clean tools and equipment with water/solvents immediately after use.

Storage: Stored in dry conditions upto 20⁰ C. Shelf life is 12 months.

PERFORMANCE STANDARDS

ASTM-C 881-99 – Type II & V

Grade 2 - Class B&C

HEALTH AND SAFETY

VARABOND OTN should not come into contact with skin and eyes or be swallowed. Avoid prolonged inhalation of vapours. Some people are sensitive to epoxy resins, therefore, protective gloves, goggles and barrier cream should be used. Ensure adequate ventilation and if working in enclosed areas, suitable breathing apparatus is recommended. If this material comes in contact with skin, it must be removed before it gets dry by washing with soap and water, If contamination occur with the above primer, wash well with plenty of clean water and seek medical advice. If swallowed, seek medical advice immediately. **DO NOT INDUCE VOMITING.**