

ISONEM[®] FLOOR 2K



Solvent Free Epoxy Based Coating

ISONEM FLOOR is a solvent free epoxy based, two component, coating material that when cured provides a tough high gloss floor with high chemical and physical resistance. It can be applied in thick layers to protect the metal and concrete surfaces against the chemical and physical outside impacts.

USING AREAS: A long lasting coat is used to provide durable floors for a wide range of industrial and commercial applications.

- Industrial plants, factories, refinery plants and particularly •Drug and food production fields due to solvent-free characteristics, •Acid production sites, •Chemicals factories, Warehousing •Laboratories, •Automotive and aerospace industries •Purification facilities, •Water tanks, •Metal and concrete floor and walls.

FEATURES AND BENEFITS: •Easy to clean and maintain •Easy to apply •Wide range of attractive colours •Seamless and even surface provides a smooth running and therefore, low noise environment •Excellent maintenance and cleaning properties reduces cleaning costs •Ease of decontamination, ideally suited to clean room and sterile areas

TECHNICAL PROPERTIES: •**Composition:** Solvent Free Epoxy Based •**Density (Mixture):** 1,5 – 1,6 gr/ml approx. •**Solids Content:** 35 – 40 minutes (@23°C) •**Number of Coats:** 1 - 2 normally •**Dry Film Thickness:** 400 µm in two coats •**Fully Cured at 20°C:** 7 days •**Rate of Cure:** Tack Free 6 hours Hard Dry 18-24 hours Recoat 8 hours to 2 days. •**Application Temperature Range:** +10°C to +40°C 75% maximum relative humidity •**Tensile Strength:** 22 N/mm2 •**Flexural Strength:** 45 N/mm2 •**Compressive Strength:** 75 N/mm2 •**Adhesion to good quality concrete:** 2,8 N/mm2 (concrete failure) •**Mixture Ratio (A:B by weight):** 4:1 (A: Paint ; B:Hardener) •**Application tools:** Roller, brush, airless spray

APPLICATION:

SUBSTRATE PRE-TREATMENT: The surface to which **ISONEM FLOOR** is to be applied must be clean and dry and free from oil, grease and loose material and any other contamination which might impair adhesion. Any repairs or smoothing should be completed in good time prior to installation. Concrete surfaces shall be free from laitance. Pre-treatment is best done by vacuum recovery shotblasting, grinding, or concrete planing. New floors should be at least 21 days old. Substrate moisture content must be less than 4%. All ground concrete slabs must have installed an effective vapour barrier/damp proof membrane.

NB: If there is any doubt as to the efficacy of the **ISONEM FLOOR** use the vapour permeable **ISONEM FLOOR-WB** systems.

FOR THE STEEL AND METAL SURFACES: The metal surfaces should be purified from any kind of oil, dust, rust and similar materials that may prevent the paint to be fixed to the surface, if there is epoxy paint on the surface previously and it is not possible to remove it then the surface of the coat should be emiered and cleaned with solvent.

APPLICATION CONDITIONS: For best results, materials, substrate and air temperature should be in the range 15–30°C. Low temperatures will reduce flow and can impair the visual appearance of the floor. High temperatures will shorten the open time and can impair the appearance of the floor. The temperatures should not fall below the minimum stated until the material is fully cured. The temperature of the substrate must be at least 3°C above the dew point both during the application and for at least a further 8 hours (at 15°C). Application surface should be primed by ISONEM EP PRIMER by the consumption of 0,3-0,4 kg/m².

PREPARING THE MIXTURE: **ISONEM FLOOR** is supplied in units packed in the exact mix ratio. (A+ B Components) The mixture ratio should be 4:1 by weight (A:B) First the solvent free epoxy resin based A component is mixed thoroughly for a few minutes with a low speed (ca.300 rpm) electric drill and paddle until it is homogeneous. Then pour the entire contents of part B into the container of part A and mix thoroughly until the homogenous mixture obtained. The materials should be mixed depending on the ratios strictly. Mix Scrape the sides and the bottom of the container several times during mixing to ensure complete mixing. Keep the mixing head submerged to avoid entrapping air. Do not work out of the original container. Decant the mixed material into a fresh container and remix for another minute.

APPLICATION THE MIXTURE: The mixture is applied onto the surface in single layer by using a brush and airless spraying equipment, if the thickness is required, the second layer should be applied immediately after the first layer got dried within recoating intervals thus the best adhesion is ensured between the middle layers. The application should be done into the same direction every time. The hardening occurs within 18-24 hours. The complete hardening and physical, chemical resistance start after 7 days.

CONSUMPTION: 500gr/m² layer

PACKAGE: Solvent free epoxy 4 kg. + 1 kg hardener. = 5 kg set

STORAGE CONDITIONS/SHELF LIFE: 12 months from date of production if stored properly in unopened and undamaged original sealed containers at temperatures between +5°C to +35°C at dry conditions. Protect from excessive temperature and frost.

