

ISONEM FLOOR 2K TECHNICAL DATA SHEET

Product Name	: ISONEM Floor 2K
Type	: Two component, solvent free epoxy based coating material
Density (25°C, g/mL)	: 1.30 ± 0.10
Viscosity (25°C, mPa.s)	: 1400 - 1600
Solid Content (% Weight)	: 100
Water Transmission Rate (kg/ m². h^{0.5})	: ≤ 0.1, CLASS W ₃
Adhesion strength by pull-off test (N/mm²)	: Crack-bridging system trafficking ≥ 4,0 With trafficking ≥ 5,0
Permeability to water vapour (m)	: sD > 50, CLASS III
Brightness (85°, 60° angle)	: > 10, ≤ 60, CLASS G ₂
UV-stability	: Not resistant
Solvent	: Organic solvent
Class of Fire Reaction	: C fl S1
Consumption	: 1 kg / m ² (Two layers)
Color	: Produced in RAL colors
Packaging	: 5 kg ready to use set (A Component: 4 kg, B Component: 1 kg combi metal gallon)
Storage Temperature (°C)	: 5 – 35
Storage Condition/Shelf life	: 24 months in original, unopened package in cool and dry environment.
Application Tools	: Roller, brush or suitable spray gun

USAGE AREA

- 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
- Acid production sites,
- Chemicals factories,
- Warehousing, laboratories,
- Automotive and aerospace industries
- Purification facilities,
- Water tanks,
- Metal and concrete floor and walls.

APPLICATION INFORMATION

- Surface Preparation

For cement surfaces: The surface 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. New floors should be at least 21 days old. All ground concrete slabs must have installed an effective vapor barrier/damp proof membrane.

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 emerged and cleaned with solvent.

Application surface should be primed by ISONEM EP PRIMER by the consumption of 0,3 - 0,4 kg/m².

- **Application Instructions:** Mix component A mechanically before mixing. After adding component B to component A, mix continuously for 2 minutes until a uniformly dispersed mixture is obtained. It should be mixed with electric mixer (300-400 rpm or other suitable mechanical mixing device).
- **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.

FEATURES AND BENEFITS

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.

- *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*