

ISONEM[®] PU FLOOR



Polyurethane Resin Based 2-Part Self Smoothing Screed And Seal Coat

ISONEM PU FLOOR is a two part solvent based coloured self-smoothing polyurethane resin based floor coating with tough-elastic properties.

ADVANTAGES: •Flexible and tough-elastic •UV resistant, suitable for exteriors •Crack-bridging •Good chemical and mechanical resistance •Slip resistant surface possible •Liquid proof •Easy to apply •Easy to clean •Economical

USING AREAS: •Smooth wearing course with crack-bridging properties for industrial floors in production and storage facilities, work shops etc. •Broadcast wearing course with crack-bridging properties for wet working areas (food and beverage industry etc.), car park decks and loading ramps etc. •Seal coat for broadcast systems •Can be subjected to normal to medium heavy mechanical and chemical stress

TECHNICAL PROPERTIES: •**Composition / Appearance:** Part A: Polyurethane resin based / coloured, liquid Part B: Hardener / clear, liquid. Part C: Mineral Aggregate •**Density:** Paint (A component): 1,35±0,05 gr/ml Mixed Paint(unfilled): 1,35±0,05 gr/ml Mixed Resin (filled 1:0.55): approx. 1,8 kg/l •**%Solid Content (By Weight):** 70±2% •**Colours:** Available in any colours •**Pot Life:** 40 – 60 minutes •**Substrate Temperature:** +10°C min. / +30°C max. •**Hard Curing Time (Walkable On):** Min 24 hours. •**Full Curing Time:** 7 days •**Storage Temperature:** App. 25 - 30°C •**Application Temperature:** Below dew point

APPLICATION:

Substrate Quality Concrete substrates must be sound and sufficient compressive strength (minimum 25 N/mm²) with a minimum pull off strength of 1.5 N/mm².

The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. If in doubt apply a test area first.

Substrate Preparation Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface. Weak concrete must be removed and surface defects such as voids must be fully exposed. Repairs to the substrate, filling of blowholes and surface levelling must be carried out by using **ISONEM M 03** Repair Mortar. The concrete or screed substrate has to be primed or levelled in order to achieve an even surface by **ISONEM EP PRIMER** by the consumption of 0,3-0,4 kg / m².

APPLICATION CONDITIONS / LIMITATIONS: •**Ambient Temperature:** +10°C min. / +30°C max. •**Substrate Moisture Content:** <4% pbw moisture content. •**Relative Air Humidity:** 70% r.h. max. •**Dew Point:** Beware of condensation! The substrate and uncured floor must be at least 3°C above the dew point to reduce the risk of condensation or blooming on the floor finish.

APPLICATION INSTRUCTIONS: MIXING PART A : Part B = 16,8 : 1,2 (by weight) **MIXING:** Time Prior to mixing, stir part A mechanically. When all of part B has been added to part A mix continuously for 2 minutes until a uniform mix has been achieved. When parts A and B have been mixed, if high thickness and high mechanical resistance required add the C Component (8 - 10 kgs of C component which includes special mineral aggregates is recommended for 18 kgs of set) mix for a further 2 minutes until a uniform mix has been achieved. **MIXING TOOLS:** ISONEM PU FLOOR must be thoroughly mixed using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.

APPLICATION METHOD / TOOLS: ISONEM PU FLOOR is applied by roller, spraying equipment or serrated trowel poured up to desired thickness. Depending on application type period if necessary roll immediately in two directions with spiked roller to ensure even thickness and to remove entrapped air.

CONSUMPTION: Changeable depending on the application type, surface porosity, surface profile, variations in level or wastage etc. Approximately 0,5–1 kg/ m² (by roller, 300 – 500 microns dft, A+B+C) 3 – 4 kg/m² (by trowel, 1 – 2 mm dft, A+B+C)

PACKAGING: •Part A: 16,8 kg pail + Part B: 1,2 kg containers •Part A+B: 18 kg ready to mix units •Part C (if required): 10 kgs (recommended)

STORAGE CONDITIONS / SHELF-LIFE: 12 months from date of production if stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between +5°C and +30°C at dry conditions. Protect from low and excessive temperature.

IMPORTANT NOTES: ISONEM PU FLOOR contains flammable solvents. Ensure adequate ventilation. Do not smoke during application. Avoid the presence of a naked flame, electrical equipment or sparks. Wear and maintain suitable breathing equipment if applying by low pressure spray or working in confined areas. Avoid contact with skin and eyes and avoid breathing its vapour or mist spray. In case of poisoning consult a doctor immediately.



The information contained in this leaflet has been prepared to our best knowledge, and in consistency with the results of our experiments and experience, and are the products of our know-how based on our accumulation of decades. However, the application of our products accurately and successfully, is entirely beyond our control and responsibility. Therefore, the scope of our liability is limited to the quality of our products and this technical leaflet supercedes all the previous technical leaflets and all the explanations and the information contained in the product labels.