

ISOPLAM INDUSTRIAL FLOORING SPECIFICATION

Working Stages	Workpiece Description	Indicative estimated quantity	Unitary expense
Art. 1 Support	Arrangement of the ground through compaction and subsequent laying of concrete respecting the minimum slope limit in compliance with UNI 11146/2005 regulation and Work Management prescriptions.		
	Arrangement and leveling of wells and machicolations, aiming to guarantee a proper surface-water drain.		
Art 2. Support Preparation	Supply, laying and subsequent leveling of the formwork. In the event that some sideflexing formworks are required, ISOPLAM® PLAM FLEX shall be supplied for use.		
	Supply and laying of a 0,20 mm layer of ISOPLAM® NYLON VAPOR COAT, ensuring an overlap of the nylon sheets of at least 20 cm, to prevent rising damp. The overlap shall be sealed with ISOPLAM® DUCT TAPE to prevent water infiltrations.		
	Supply and laying of a single layer of ISOPLAM® MEMBRANE DPM, 200 g/mm ² grammage to be paired and overlapped with ISOPLAM® NYLON VAPOR COAT coating sheets, to allow the concrete casting to keep moist during the kneading phases.		
	Supply and laying of ISOPLAM® EXPANDED POLYETHYLENE TAPE aiming to isolate the outer edges.		
	Laying of ISOPLAM® PAVIGEL for protecting external surfaces from the concrete flow.		
Art 3. Steel Reinforcement	Supply and laying of ISOPLAM® STEEL REINFORCEMENT \varnothing 6 mm, (\varnothing 8 mm recommended for use in case of heavy traffic movement), 20 x 20 cm mesh with a one-mesh overlap (the welding of sheets is not required). ISOPLAM® STEEL REINFORCEMENT shall be widely spaced from the subgrade with the use (variable) of 5 cm ISOPLAM® DISTANZIATORI (5cm spacers). Available ISOPLAM® DISTANZIATORI heights may vary depending on the concrete's width to be placed for maintaining a correct position during the concrete pouring phase.		
Art 4. Concrete	Supply and laying of concrete for industrial floorings. The concrete's resilience shall be of at least Rck 30 N/mm ² (C25/30), Exposure grade XC2. The Cement content shall not be lower than 300 kg/m ³ .		
	The Water/concrete ratio shall not exceed a 0,60 value. In case of use of the ISOPLAM® VIBRANTING MAGIC SCREED, the suitable consistency class shall be S2-S3.		

	In case of manual smoothing ISOPLAM® ALLUMINUM SCREED, the proper consistency class shall be S4.		
Art 5. Seasonal Additives	Supply of ISOPLAM® COLDPAV superplasticising for concrete laying in cold weather or ISOPLAM® HOTPAV superplasticising for concrete laying in hot weather.	1,50 lt/100Kg cement	
Art 6. Fibers	Supply of 30mm long and ø0,5mm ISOPLAM® EXTRUDED POLYESTER FIBERS to add to fresh concrete's manufacturing (at the manufacturing site).	2Kg / m ³	
	Supply of ISOPLAM® PROPHYLENE FIBERS to avoid eventual superficial micro-cracks.	0,6 kg/mc	
Art 7. Concrete casting	Concrete casting, in compliance with the minimum slope limit of 1%.		
Art 8. Concrete Trowelling	Fresh concrete trowelling with ISOPLAM® POWER TROWEL to prepare the surface before incorporating the hardener.		
Art 9. Hardener	Supply and laying of high-resistance colored hardener for industrial floors ISOPLAM® PAVILUX (see ISOPLAM® COLOR CHART), to be applied by sprinkling upon fresh concrete and incorporated with manual or automatic screed. <u>The quantity needed may vary depending on the required color or on the required load resistance.</u>		
Art 10. Finishing	Subsequent surface smoothing with ISOPLAM® POWER TROWEL, until the required finishing is achieved.		
	Treatment with ISOPLAM® ANTI-EVAPORATION or ISOPLAM® E-RED evaporation retarder to avoid fast drying.		
Art 11. Control joints	Realization of control joints, as prescribed by the Work Management, with ISOPLAM® DIAMOND DISC.		
	Supply and laying of ISOPLAM® NEOPRENE JOINT FILLER to fill control joints; the sheath's thickness shall be same as the diamond disc's.		
	Joints and overlay cleaning for a fast removal of the upper waste water released by the cutting machine.		
Art 12. Concrete Protection	Before proceeding with the resin application, wait until the surface is completely dry and free from dust.		
	Supply and installation of two coats of ISOPLAM® PLAM SEALING, monocomponent solvent-based acrylic resin, or alternatively ISOPLAM® PLAM SEALING WATER, water-based protective anti-dust resin for industrial floors.		