

Working Stages	Workplace Description: STAMPED CONCRETE FLOOR	Indicative estimated quantity	Unitary Cost
Art. 1 Foundation	<p>Arrangement of ground foundation through compaction and subsequent laying of concrete respecting the minimum slope limit of 1%, in compliance with UNI 11146/2005 regulation and work management prescriptions.</p> <p>Arrangement and possible wells and machicolations leveling to guarantee a proper surface-water drain.</p>		
Art 2. Support preparation	<p>Supply, laying and subsequent leveling of the formwork. In the event that circular formworks are required, PLAMFLEX ISOPLAM[®] shall be supplied for use.</p> <p>Supply and laying of a 0,02mm layer of NYLON VAPOR COAT ISOPLAM[®] with an overlap of the nylon sheets of at least 20cm. The overlap shall be sealed with PAPER RIBBON ISOPLAM[®] to prevent water infiltrations.</p> <p>Supply and laying of a single layer of 200 g/mm² NONWOVEN ISOPLAM[®] to be paired and overlapped of 20 cm with NYLON VAPOR COAT ISOPLAM[®] coating sheets, so that the concrete is kept damp during the stamping process. The NONWOVEN overlap has to be fixed with a paper ribbon.</p> <p>Supply and laying of EXPANDED POLYETHYLENE INSULATING STRIP ISOPLAM[®] that isolates the outer limits.</p> <p>Laying of PAVIGEL ISOPLAM[®] to protect external surfaces from the concrete flow.</p>		
Art 3. Steel Reinforcement	<p>Supply and laying of steel reinforcement wire mesh Ø 6 mm, 20 x 20 cm mesh with a one-mesh overlap. The electrowelded mesh sheets will be properly spaced from the foundation by supplying and laying Isoplam[®] iron or PVC SPACERS of variable height (the height of the spacer depends on the thickness of the concrete), placed so as to guarantee the correct position during the casting phase. The diameter of the mesh depends on the expected loads (not including the sealers or the overlaps welding).</p>		

Art 4. Concrete	<p>Supply and laying of concrete in compliance with UNI EN 206 regulations for surfaces exposed to freezing in absence of de-icing salts, exposure class XF3. The concrete's resistance shall be at least of Rck 30 N/mm² (C25/30). The concrete dosage shall not be lower than 350 kg/m³. The recommended concrete types are 325 during summer and 425 during winter. It is recommended to use an aggregate made of thin aggregates, size 15-18 mm.</p> <p>The average minimum thickness must not be less than 10 cm for pedestrian areas, 15 cm for areas of light vehicular traffic.</p> <p>The recommended concrete types are 325 during summer and 425 during winter. It is recommended to use an aggregate made of thin aggregates, size 15-18 mm.</p> <p>The average minimum thickness must not be less than 10 cm for pedestrian areas, 15 cm for areas of light vehicular traffic. The water/cement ratio shall not exceed a 0,60 value.</p> <p>In case of use of the VIBRANTING MAGIC SCREED ISOPLAM®, the proper consistency class shall be S2-S3.</p> <p>In case of manual smoothing with an ALLUMINUM SCREED ISOPLAM®, the proper consistency class shall be S4.</p>		
Art 5. Seasonal Additives	Supply of the superplasticiser ISOPLAM® COLDPAV for concrete casting in case of cold weather, or the retardant ISOPLAM® HOTPAV for concrete laying in case of hot weather. These additives facilitate the processing of the concrete.	1,5 lt/100 kg of concrete	
Art 6. Fibers	Supply of POLYPROPYLENE FIBERS ISOPLAM® in order to avoid superficial micro-cracks.	0,6 - 0,9 kg/m ³	
Art 7. Concrete casting	<p>Concrete casting, in compliance with the minimum slope limit of 2%, to ensure the proper flow of surface waters.</p> <p>Application of Isoplam®ROLLER STAMP to push toward the bottom the larger aggregates and to make rise to the surface the concrete grout, thus improving the quality of the stamped surface.</p> <p>Smoothing of the surface using an Isoplam® MAGNESIUM FLOAT to prepare a suitable surface to incorporate the Isoplam® PLAM HARDENING.</p>		
Art. 8 Hardener	<p>Supply and application of Isoplam® PLAM HARDENING hardener for high strength stamped floors in two coats, depending on the color chosen from the Isoplam® color chart, sprinkling it on fresh concrete. The quantity varies according to the color and the expected loads.</p> <p>Smoothing of the surface using an Isoplam® BIG BLUE STEEL FLOAT, in order to incorporate the hardener into the fresh concrete.</p>	4,00 kg/m ²	
Art. 9 Release Agent	Supply and application of Isoplam® PLAM RELE, a water-repellent powder release agent, applied by an Isoplam® POWDER RELEASE AGENT APPLICATOR BRUSH all over the surface and also on Isoplam® TEXTURE MATS, according to the colour chosen from the Isoplam® color chart.	150 gr/m ²	

Art. 10 Stamping	<p>Concrete stamping with the use of proper ISOPLAM® TEXTURE MATS and ISOPLAM® ANTI-SHOCK TAMPER, as per the design chosen by the work management (see the ISOPLAM® TEXTURE MATS CATALOGUE). The use of metal tampers is not recommended.</p> <p>Stamping of BORDER ISOPLAM® to decorate the borders or to divide the floor into different parts, as chosen by the work management (see the ISOPLAM® TEXTURE MATS CATALOGUE).</p>		
Art. 11 Washing	<p>Once the floor has hardened, apply ISOPLAM® PLAM DUST CLEANER (in order to avoid an excessive dispersal of dust in the air) and then wash the floor with an ISOPLAM® HIGH PRESSURE WASHER.</p> <p>Polishing of the surface with an ISOPLAM® FLOOR BUFFER, equipped with an ISOPLAM® WHITE CLEANING PAD-DRIVER.</p> <p>Wash the surface with ISOPLAM® PRESSURE WASHER.</p>		
Art. 12 Joints	<p>Realization of control joints with the use of an ISOPLAM® ELECTRIC SAW with an ISOPLAM® DIAMOND DISC, as prescribed by the work management in terms of cut, depth and length.</p> <p>Supply and laying of JOINT FILLER to fill control joints. The sheath's thickness depends on the type of ISOPLAM® DIAMOND DISC.</p> <p>Cleaning of the surface with ISOPLAM® PRESSURE WASHER and drying with ISOPLAM® VACUUM CLEANER, WET & DRY.</p>		
Art. 13 Acidification	<p>Before the process of acidification, wait until the surface is completely dry.</p> <p>Application of ISOPLAM® PLAM ACID to decorate borders and medallions, as prescribed by the work management (see ISOPLAM® COLOR CHART).</p> <p>Let ISOPLAM® PLAM ACID work for 4 hours.</p> <p>Rinse the surface accurately with the use of ISOPLAM® NEUTRA CLEAN LIQUID.</p>	200 gr/m ²	
Art. 14 Protective resin-based Sealer.	<p>Wait until the surface is completely dry before applying the resin-based sealer.</p> <p>Supply and laying of two coats of a mono-component transparent acrylic solvent-based resin PLAM SEALING/L or PLAM SEALING/S (in case of cold weather), to be applied by ISOPLAM® ROLLER or ISOPLAM® ELECTRIC AIRLESS SPRAYER. The second coat shall be applied after 12 to 24 hours after the first one, depending on the season.</p>	300 gr/m ²	