PRODUCT	Technofloor 178
MISSION	Two-component epoxy self-levelling product for industrial floors for thicknesses from 300 µm to 3 mm
CHARACTERISTICS	TECHNOFLOOR 178 is a two-component, coloured, multipurpose epoxy formulation, used for the creation of film coatings > 300 µm, for the creation of multilayer anti-slip coatings and for the creation of self-levelling coatings. Suitably loaded and mixed, it gives life to solutions with excellent flexibility, hardness, resistance to wear and traffic with rubber wheels. Furthermore, the good chemical resistance to weakly acidic and alkaline solutions, detergents, fuels, mineral, animal and vegetable oils and fats, make TECHNOFLOOR 178 suitable for covering industrial floors in warehouses, chemical and pharmaceutical industries, food industries, offices, canteens and beverage industries. The product is also available in the TECHNOFLOOR 177 version, a slow-speed formulation, ideal for hot seasons, where ambient and substrate temperatures would accelerate the reaction. TECHNOFLOOR 177 has a pot life at 25°C of approximately 35 minutes, all the other properties of the flooring remain unchanged.
APPEARENCE	Comp. A: medium viscosity coloured liquid Comp. B: low viscosity brown liquid

CHARACTERISTICS OF THE LIQUID PRODUCT			
CHARACTERISTICS	**VALUE**	**TOLERANCE**	**U.M.**
Specific weight	1,30	± 0,1	Kg/dm^3
Dry mass residue	99,8	± 0,5	%
Viscosity Brookfield (spindle n. 4, speed 5 rpm)	1700	± 1	sec
Mixing ratio by weight	A : B = 76 : 24		

APPLICATION INSTRUCTIONS			
TOOLS	**THINNING**	**TYPE OF THINNER**	**TOOL CLEANING**
Roller	Ready to use		DIL S1
Brush	Ready to use		DIL S1

LAYING SURFACE	Consult the specification for the construction of concrete substrates in advance. In general, concrete substrates must be clean, free from traces of grease and dust; non-coherent parts and any soluble salts must be removed before application. The compressive strength must be at least 25 N/mm2 and the tensile strength at least 1.5 N/mm2, to prevent the resin from tearing the contact surface during the catalysis. The substrate must also be free from vapor pressure and/or capillary rising damp. If the humidity of the substrate is equal to or greater than 4%, before carrying out a resining cycle with TECHNOFLOOR 178, it is necessary to lay an epoxy-cement

	chemical barrier such as Epocon 312 Tixo or Epobase FU14. Sandblasting or shot blasting treatment is always recommended in order to eliminate any inconsistent parts and increase the roughness of the substrate for greater adhesion. Subsequently, it is advisable to apply a primer based on the state of the surface to be laid on (consult the Casali S.p.A. Technical Department). In any case, the installation cycle must be defined on the basis of the type of substrate and the intended use of the finished surface; consult the Technical Office of Casali S.p.A. to better define the laying layers.

CONSUMPTION	Approximately 0,45 kg/m2 as varnish for a thickness of 300 µm. Approximately 1,2 kg/m2 per 1 mm of thickness mixed 1:0,5 with sand 0,1-0,3 About 1 kg/m2 per 1 mm of thickness mixed 1:1 with sand 0,3-0,5

APPLICATION INSTRUCTIONS	ATTENTION: the reaction of the product is strongly exothermic; this implies a drastic reduction of the pot-life if, once mixed, the product is left in the original packaging. We therefore recommend the following (alternatives): 1) After mixing, divide the can into 2-3 clean, dry containers and use them simultaneously if possible. 2) Mix small quantities of product, taking care to respect the catalysis ratio precisely. 3) After mixing, if the substrate allows it, pour a homogeneous bead of material on the surface and apply quickly with a short-haired roller or metal spatula. TECHNOFLOOR 178 is supplied in pre-measured packages of the two components A and B. Mix component A well and add component B to the container of A, stirring with an electric drill. It is possible to apply the product in three ways according to the site requirements. 1- Varnishing: In the case of applying a thick finish, apply the product with a short-haired roller as it is or add a maximum of 2% of ventilated quartz to give greater surface roughness to the applied product. 2- Self-levelling: In case of application as self-levelling, in addition to the application as such with a calibrated notched trowel, it is possible to load TECHNOFLOOR 178 in the ratio 1:0.5 with quartz sand having a particle size of 0.1-0.3 mm and continue mixing for another two minutes until completely homogenized. Pour the product and distribute it on the surface with a calibrated notched trowel; immediately after application, pass the appropriate bubble-breaker roller in order to eliminate any air trapped during mixing. The amount of inert to add depends on the application temperature, the lower the latter, the lower the amount of quartz to add to preserve the self-levelling properties of the mix. 3- Multilayer: In the case of application in multilayer, in standard conditions of the support (first consult the "substrate" section of this technical data sheet") and after having adequately prepared it, apply Epobase loaded 1:1 with quartz sand 0.3- 0.5 with a smoothing spatula, at a rate of 0.5 kg/m2. On fresh, sow in rejection with the same sand used previously. Once the catalysis times have ended, suck up the excess sand with an industrial vacuum cleaner, sand with a suitable sander to eliminate the sand not completely incorporated in the resin and proceed again with an industrial vacuum cleaner. Then proceed with smoothing TECHNOFLOOR 178 loaded with 0.3-0.5 quartz sand in a 1:1 ratio; on the fresh product, proceed with sowing of the same sand 0.3-0.5 in denial. Once the catalysis is complete, suck up the excess sand with an industrial vacuum cleaner, sand with a suitable sander to eliminate the sand not completely incorporated in the resin and proceed again with an industrial vacuum cleaner. Then apply the painting cycle as described in point 1.

	Environmental temperature: MIN 10° C MAX 30° C Environmental relative humidity: MAX 80 % Laying surface temperature: MIN 10° C MAX 30° C

HARDENING AT 23° C AND 50 % U.R.	Pot life: approx. 25' Interval between coatings: MIN 16 h MAX 48 h Complete hardening: MAX 7 day The times indicated refer to standard laboratory conditions. Drying times are strongly affected by the weather; high temperatures and exposure to direct sunlight accelerate hardening; shadow and low temperatures delay hardening. During winter it is advisable to lay the product in the middle of the day when it is warmer. Always ensure that the previous layer has hardened perfectly before applying a new coating.

CHARACTERISTICS OF THE DRY PRODUCT	
CHARACTERISTICS	**VALUE**
Durezza Shore D - After 24 h - Completely hardening	 50 74

PACKAGING INSTRUCTIONS	**COLOURS AVAILABLE** Grey and other on request for minimum batch production on 1000 Kg	**PACKAGING** A + B = 20 Kg
STORAGE INSTRUCTIONS	**STORAGE TEMPERATURE** MIN 10° C – MAX 30° C	**STABILITY IN THE ORIGINAL PACKAGE** 6 months
SAFETY STANDARDS	Please read the safety data sheet carefully before using this product.	