TECHNICAL DATA SHEET TECHNIART FLOOR SYSTEM 200

A set of epoxy products for making floor underlayments and for the protection of concrete substrate indoors.

CHARACTERISTICS	
Solvent-free system. Available in a range of colours. Smooth and anti-slip coats possible. Ease of application. Ease of maintenance.	
INTENDED USE	
Coats made by painting technique. Coats made by casting technique. Coats with quartz broadcast. Coats with a coloured flakes broadcast. Widely used in industrial facilities, wareho	buses, car parks and technical rooms; also in the food and pharmaceutical industry.

APPROVALS/STANDARDS

Complies with EN 1504-2:2004

SYSTEM DESIGN

POSSIBLE SYSTEM VARIANTS GUARANTEEING THE MAINTENANCE OF THE PARAMETERS DECLARED IN THE SYSTEM DECLARATION OF PERFORMANCE:

THIN COAT PAINTED SYSTEM 0,6 - 0,8 mm PRIMING - TECHNIPLAST 400RST FIRST PAINT COAT - TECHNIPLAST 200 SECOND PAINT COAT - TECHNIPLAST 200 TECHNIPLAST 1000 PROTECTIVE COAT	- - -	0.30 – 0.40 kg/m ² 0.25 – 0.30 kg/m ² 0.25 – 0.30 kg/m ² 0.10 – 0.15 kg/m ² (optional)
THIN COAT PAINTED SYSTEM WITH FLAKES 0,6 - 0,8 mm PRIMING - TECHNIPLAST 400RST SEALING COAT - TECHNIPLAST 200 BROADCAST WITH COLOURED FLAKES TECHNIPLAST 1000 PROTECTIVE COAT	- - -	0.30 – 0.40 kg/m ² 0.50 – 0.60 kg/m ² 0.01 kg/m ² 0.10 – 0.15 kg/m ²
SELF-SMOOTHING COAT ~ 1 mm PRIMING - TECHNIPLAST 400RST BROADCAST WITH QUARTZ SAND NQ 0,1-0,4 or 0,2-0,8 BASE COAT - TECHNIPLAST 200 TECHNIPLAST 1000 PROTECTIVE COAT	- - -	0.40 – 0.60 kg/m ² max. 1 kg (optional) 1.30 – 1.50 kg/m ² 0.10 – 0.15 kg/m ² (optional)
SELF-SMOOTHING COAT 1,5 - 3,0 mm PRIMING - TECHNIPLAST 400RST BROADCAST WITH QUARTZ SAND NQ 0,1-0,4 or NQ 0,2-0,8 BASE COAT - TECHNIPLAST 200 QUARTZ SAND FOR RESIN NQ 0,1-0,4 TECHNIPLAST 1000 PROTECTIVE COAT	- - - -	0.40 – 0.60 kg/m ² max. 1 kg (optional) 1.50 – 3.00 kg/m ² ratio 1 : 0.8 (by weight) 0.10 – 0.15 kg/m ² (optional)



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ANTI-SLIP COAT 1,0 - 2,0 mm		
LEVELLING PRIMING TECHNIPLAST 400RST	-	0.4 – 0.6 kg/m²
QUARTZ SAND FOR RESIN NQ 0,1-0,4 or NQ 0,2-0,8	-	ratio 1: 0.6 (by weight)
BROADCAST WITH QUARTZ SAND NC 0,4-0,8 or NC 0,8-1.2	-	~ 3.0 kg/m ² (broadcast until dry)
TECHNIPLAST 200 SEALING COAT	-	0.5 – 0.8 kg/m²
TECHNIPLAST 1000 PROTECTIVE COAT	-	0.1 – 0.15 kg/m ² (optional)
ANTI-SLIP COAT 3,0 - 4,0 mm		o (1)
LEVELLING PRIMING TECHNIPLAST 400RST	-	0.4 – 0.6 kg/m ²
QUARTZ SAND FOR RESIN NC 0,2-0,8	-	ratio 1 : 0.6 (by weight)
BROADCAST WITH QUARTZ SAND NC 0,4-0,8	-	~ 3.0 kg/m ² (broadcast until dry)
TECHNIPLAST 200 BASE COAT	-	$0.5 - 0.7 \text{ kg/m}^2$
BROADCAST WITH QUARTZ SAND NC 0,4-0,8 or NC 0,8-1,2	-	~ 3.0 kg/m ² (broadcast until dry)
TECHNIPLAST 200 SEALING COAT	-	0.5 – 0.8 kg/m ²
TECHNIPLAST 1000 PROTECTIVE COAT	-	0.1 – 0.15 kg/m ² (optional)
STRUCTURED PAINT COAT - 0,6 mm		,
PRIMING - TECHNIPLAST 400RST	-	0.4 – 0.6 kg/m ²
BROADCAST WITH QUARTZ SAND NC 0,1-0,4 or 0,2-0,8	-	max 1 kg (optional)
TECHNIPLAST 200 BASE COAT	-	$0.5 - 0.7 \text{ kg/m}^2$
THIN COAT SAND FLOORING (DIY VARIANT) 1,0 - 2,0 mm		-
LEVELLING PRIMING TECHNIPLAST 400RST	-	0.4 – 0.6 kg/m ²
QUARTZ SAND FOR RESIN NC 0,1-0,4 or NC 0,2-0,8	-	ratio 1 : 1 (by weight)
TECHNIPLAST 200 BASE COAT	-	$0.3-0.4 \text{ kg/m}^2$
BROADCAST WITH QUARTZ SAND NC 0,4-0,8 or NC 0,8-1,2	-	~ 2.5 kg/m ² (broadcast until dry)
TECHNIPLAST 200 SEALING COAT	-	~ 0.7 kg/m ²

SUBSTRATE

REQUIREMENTS:

EXECUTION	The concrete base shall be executed in accordance with the relevant standards		
CONCRETE CURING	min. 28 days		
HUMIDITY	max. 4% by weight	(it is advisable to take a concrete sample and then weigh it before and after baking in the kiln)	
TEMPERATURE	min. 10 ⁰ C		
PULL-OFF STRENGTH	~ 1.5 MPa	(pull-off test)	

PREPARATION:

The concrete substrate should be homogeneous without any "marl", cracks, scratches or cavities, and if they occur, they should be repaired using TECHNIPLAST 400 RST and, if necessary, TECHNIPLAST 60 filling and adhesive compound. Skirtings are to be made in accordance with the design documentation using a skirting compound made from TECHNIPLAST 400 TIX resin and a suitable quartz sand mixture. TECHNIPLAST 400 TIX should be mixed with quartz sand NQ or CQ in the right proportion and then applied with a suitable tool to give the desired shape to the plinth. The plinth should be painted with TECHNIPLAST 200 TIX resin.

Cement laitance and other layers that may weaken adhesion should be removed mechanically by shot blasting or grinding, and dust and loose parts cleaned up.

Old concrete substrates should be repaired using appropriate TECHNIPLAST materials. Do not apply TECHNIART FLOOR SYSTEM on poorly or uninsulated substrates; this may lead to an increase in vapour pressure under the floor layer and consequently damage the floor.



APPLICATION

CONDITIONS:

AMBIENT TEMPERATURE	min.10ºC max. 30ºC
SUBSTRATE TEMPERATURE	min. 10°C and at least 30°C above dew point temperature
AIR HUMIDITY	max. 75%

MIXING:

Materials to be used should have a minimum temperature of 15°C.

Pour the entire contents of the container with component B into the container with component A. Mix with a slow-speed mixer for approximately 2 minutes (to avoid excessive aeration of the material, it is recommended to use a mixer speed of approximately 300 rpm)

Pour the material into a clean container and mix again for approximately 1 min. Due to the chemical reaction taking place, the material should be applied immediately after mixing. Do not leave the mixed material in the packaging.

WORKING TIME WITH THE PRODUCT ON THE SUBSTRATE:

FITNESS FOR 100°C TEMPERATURE (on substrate)	40 – 45 min.
FITNESS FOR 200°C (on substrate)	20 – 25 min
FITNESS FOR 300°C (on the ground)	10 – 15 min.

PRIMING:

TECHNIPLAST 400RST should be spread evenly with a rubber squeegee and then rolled out with a resin roller using the crosswise technique. The substrate should be uniformly saturated with the priming material.

LEVELLING:

If it is necessary to make a levelling layer, it should be carried out with the use of a levelling mortar made of TECHNIPLAST 400RST with an addition of quartz sand NQ 0,1-0,4 or NQ 0,3-0,7 in the weight proportion 1:0,6. The mortar should be spread evenly with a stainless steel trowel.

The surface thus levelled can optionally be broadcast with NQ quartz sand.

PAINT COAT:

The material should be applied with a resin roller with a crosswise application method. For a structured coat, use a suitable roller for structured coats.

SEALING COAT:

TECHNIPLAST 200 should be spread evenly with a hard rubber squeegee and then levelled with a resin roller using the crosswise painting technique. The best effect is achieved by applying the resin in two coats.

SMOOTH COAT:

For a smooth coat effect, the material should be spread with a spacer squeegee or toothed squeegee. After spreading the material evenly, TECHNIPLAST 200 should be thoroughly vented using a suitable spiked roller. The best effect is achieved by rolling the surface using the crosswise technique.

STRUCTURED COAT:

For a structured coat effect, the material should be spread with a toothed squeegee. After spreading the material evenly, TECHNIPLAST 200 STR should be rolled out using a suitable structured roller. A cross painting technique is recommended. The best effect is achieved by applying the resin in two coats. Please note that coats exposed to prolonged UV radiation may discolour locally, which will not affect their other properties.

MATT COAT:

In case of finishing the floor with TECHNIPLAST 1000 matt varnish, the material should be applied with a specialist varnish roller using the crosswise method. To avoid streaks, do the last painting one way with the weight of the roller without pressing it against the surface.



CLEANING OF TOOLS

Tools should be cleaned immediately after use with a solvent such as acetone or xylene.

WORKING WINDOW		
TECHNIPLAST/TECHNIPLAST 10°C	min. 24 h	max.72 h
TECHNIPLAST/TECHNIPLAST 20°C	min. 12 h	max.48 h
TECHNIPLAST/TECHNIPLAST 30°C	min. 8 h	max.24 h

STRESS

	PEDESTRIAN TRAFFIC	LIGHT LOAD	FULL LOAD
SUBSTRATE TEMPERATURE 10°C	~ 72 h	~ 6 days	~ 10 days
SUBSTRATE TEMPERATURE 20°C	~ 24 h	~ 4 days	~ 7 days
SUBSTRATE TEMPERATURE 30°C	~ 12 h	~ 2 days	~ 5 days

CLEANING

Observance of the cleaning conditions specified in this manual for TECHNIPLAST coats is an important element which guarantees maintenance of correct technical parameters of the coats used.

DAY-TO-DAY CLEANING:

Day-to-day cleaning should be carried out at a frequency that allows for the removal of ongoing soiling resulting from normal floor and wall use. This applies in particular to the cleaning of localised dirt and the removal of hard and sharp loose materials that may cause scratching and scuffing of the floor surface, e.g.: sand, mud.

PERIODIC CLEANING:

Periodic cleaning should be carried out at a frequency that will prevent the permanent accumulation of dirt on the floor and wall. The frequency of this type of cleaning depends on the degree of exposure to dirt, as well as sanitary requirements.

DEEP CLEANING:

Deep cleaning should be carried out on floors and walls that are very heavily and permanently soiled and for which traditional cleaning methods and agents do not have the desired effect.

EMERGENCY CLEANING:

OLEANING METHODO

Emergency cleaning should be carried out whenever the floor is contaminated with substances that may affect the technical and functional properties of the floor, e.g.: oil, grease, fats, aggressive chemicals.

dry wet	manual or mechanical sweeping, vacuum cleaning. manual cleaning: mop, soft brush, cotton rags.
	mechanical cleaning; scrub and pickup machines, pressure-controlled machines.
RECOMMENDED CLEANING AND CARE PRO day-to-day cleaning	DDUCTS: - neutral or slightly alkaline chemicals with a pH of approx. 7÷10,
periodic cleaning	- neutral or slightly alkaline chemicals with a pH of approx. 7÷10,
thorough cleaning	- suitable cleaning agents,
emergency cleaning	 sawdust or highly absorbent rags + suitable cleaning agent

The choice of means and method of cleaning the object depends on the size of the surface, as well as the degree of soiling. Any water remaining after cleaning should be removed immediately.



SAFETY

Products being components of the TECHNIART FLOOR SYSTEM 200 building product should be used only in ventilated premises. Avoid contact with skin and eyes. Protective goggles, gloves and work clothes are absolutely recommended during application. Open flames must not be used during the course of the work, nor must any work that is a source of fire be carried out. Detailed information on safety and environmental protection is available in the Safety Data Sheets of individual products comprising the TECHNIART FLOOR SYSTEM 200 building product.

FINAL NOTES

The above information on the TECHNIART FLOOR SYSTEM 200 building product, as well as on the products comprising it, and in particular its proposed areas of application and methods of application, has been given in good faith based on our current state of knowledge.

The technical data cited above are based on laboratory studies and tests.

Due to the lack of control over the actual conditions and quality of application and the manner of use of the products included in the TECHNIART FLOOR SYSTEM 200 building product, TECHNIART stipulates that the data contained in this technical sheet cannot constitute the basis for TECHNIART's responsibility.

With the issue or update of this data sheet, previous data sheets lose their validity.

