

TECHNIART FLOOR SYSTEM 200 AQ

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

CHARACTERISTICS

Vapour-permeable system.
Odourless.
Water-soluble.
Available in a range of colours.
Smooth and anti-slip coats possible.
Ease of application.
Ease of maintenance.
A versatile material with a wide range of applications.

INTENDED USE

Coats made by painting technique.
Coats with quartz broadcast.
Coats with a coloured flakes broadcast.
Widely used in residential areas, industrial facilities, warehouses, car parks, garages and technical rooms.

APPROVALS/STANDARDS

Complies with EN 1504-2:2004

LAYERING

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

SMOOTH PAINT COAT ~ 0.5 mm

PRIMING - AQUAPLAST 150TB/200 - 0.25 – 0.3 kg/m² + 5 – 10% of water
BASE COAT 1 - 2 x AQUAPLAST 200 - 0.25 - 0.3 kg/m²

SMOOTH PAINT COAT WITH COLOURED FLAKES ~ 0.5 mm

PRIMING - AQUAPLAST 150TB/200 - 0.25 – 0.3 kg/m² + 5 – 10% of water
BASE COAT 1 - 2 x AQUAPLAST 200 - 0.25 - 0.3 kg/m²
BROADCAST WITH COLOURED FLAKES - 0.01kg/m²
TECHNIPLAST 500 PU UVR-T PROTECTIVE COAT - 0.3 kg/m²

ANTI-SLIP COAT ~ 1 - 1.5 mm

PRIMING - AQUAPLAST 150TB/200 - 0.25 – 0.3 kg/m² + 5 – 10% of water
AQUAPLAS 200 BASE COAT - 0.25 - 0.5 kg/m²
BROADCAST WITH QUARTZ SAND NQ 0.2-0.8 - ~ 2.5 kg/m² (broadcast until dry)
AQUAPLAST 200 SEALING COAT - 0.5 - 0.7 kg/m²
AQUAPLAST 200 SEALING COAT - 0.25 - 0.3 kg/m² (optional)

SUBSTRATE

REQUIREMENTS:

EXECUTION	The concrete base shall be executed in accordance with the relevant standards	
HUMIDITY	max. 5% by weight	(it is advisable to take a concrete sample and then weigh it before and after baking in the kiln)
TEMPERATURE	min. 10° 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 the appropriate TECHNIPLAST/AQUAPLAST material.

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/AQUAPLAST materials.

APPLICATION

CONDITIONS:

AMBIENT TEMPERATURE	min. 10° C max. 30° C
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 15⁰C.

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. If necessary, 5-10% water can be added and re-mixed for about 1 min until smooth.

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 10° C TEMPERATURE (on substrate)	70 - 90 min.
FITNESS FOR 20° C TEMPERATURE (on substrate)	40 - 60 min.
FITNESS FOR 30° C TEMPERATURE (on substrate)	15 - 30 min.

PRIMING:

AQUAPLAST 150TB/200 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 AQUAPLAST 150TB/200 with an addition of quartz sand NQ 0.1-0.4 or NQ 0.2-0.8 in the weight proportion 1:0.5.

The mortar should be spread evenly with a stainless-steel trowel.

The surface thus levelled can optionally be broadcast with NQ 0.2 - 0.8 quartz sand.

PAINT COAT:

The material should be applied with a resin roller with a crosswise application method.

SEALING COAT:

AQUAPLAST 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.

Please note that coats exposed to prolonged UV radiation may discolour locally, which will not affect their other properties.

CLEANING OF TOOLS

Clean the tools immediately after use with water and detergent or acetone.

WORKING WINDOW

AQUAPLAST/AQUAPLAST 10°C	min. 48 h	max. 144 h
AQUAPLAST/AQUAPLAST 20°C	min. 24 h	max. 120 h
AQUAPLAST/AQUAPLAST 30°C	min. 12 h	max. 72 h

STRESS

	PEDESTRIAN TRAFFIC	LIGHT LOAD	FULL LOAD
SUBSTRATE TEMPERATURE 10°C	~ 48 h	~ 5 days	~ 10 days
SUBSTRATE TEMPERATURE 20°C	~ 24 h	~ 3 days	~ 7 days
SUBSTRATE TEMPERATURE 30°C	~ 12 h	~ 2 days	~ 5 days

CLEANING

Observance of the cleaning conditions specified in this manual for AQUAPLAST 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:

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.

CLEANING METHODS:

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 PRODUCTS:

- day-to-day cleaning - 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 AQ 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 AQ building product.

FINAL NOTES

The above information on the TECHNIART FLOOR SYSTEM 200 AQ 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 AQ 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.