

ACS FLOOR SPORT 110[®]

Polyurethane-Based, Two-component,
Solvent - Free, High Strength Adhesive



■ Description

ACS FLOOR SPORT 110[®] is a polyurethane-based, two-component, solvent-free, high strength flexible adhesive.

■ Places of use

- In grass manufacturing for adhering synthetic grass to concrete.
- In the construction of sports fields for bonding polyurethane, rubber based layers.
- Bonding of chipboard, MDF, XPS, EPS, polyurethane sheet and sound insulation materials.
- Bonding of natural stone, ceramic, travertine, granite, marble and all kinds of decorative bricks. For bonding prefabricated

lightweight walls made of polyurethane, wood boards, cork and metallic foils

- For bonding different flooring materials such as wood, rubber, cork, PVC, SBR etc. To concrete or asphalt surfaces.

■ Advantages

- Easy application of glued materials in a short time.
- Flexibility and high bonding strength.
- Solvent-free.
- Excellent adhesion to different surfaces such as asphalt, concrete and wood.
- Thanks to quick setting it can be opened to pedestrian traffic in a short time.

TECHNICAL CHARACTERISTICS

ACS FLOOR SPORT 110[®] Component A	Polyurethane Resin
ACS FLOOR SPORT 110[®] Component B	Polyurethane Hardener
Color	Cream
Look	Paste
Density	1,60 ± 0,05 kg/liter (A+B / 20°C)
Shore D Hardness	25-30
Solid by Volume	%100 (A+B)
Mixing ratio	20:4 (A:B)
Usage time of mixture (+30°C)	25 -30 minutes
(+10°C)	45 minutes
Ability to use after bonding	12 - 18 hours / 20°C
Ready for light traffic	1-2 days / 20°C
Full cure	5-7 days / 20°C
Ambient temperature	+8°C -+ 35°C
Application Method	Notched trowel

NOTE: The above values are given at + 23 °C and 50% relative humidity environment. High temperatures shorten the time, low temperatures prolong the time.

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APPLICATION PROCEDURE / SURFACE

ACS FLOOR SPORT 110® is a part of **ACS FLOOR SPORT** coating system. The compressive strength of the concrete floors where application will be done should be 25 N/mm² and shear test and pull-off tests' values should be minimum 1,5 N/mm². The concrete must be at least 28 days, the moisture percentage of the concrete surface onto which substance will be applied should be 4-6%. All loose particles should be cleaned from cement grout and surface should be defatted. Residues, rough and shiny screed should be cleaned with tools such as sand blaster, surfacer and the surface should be roughened and wiped. The entire surface must be cleaned from dust with an industrial vacuum cleaner. Concrete surfaces in contact with the soil to be coated must be waterproofed against water and water vapor beforehand.

MIXING

ACS FLOOR SPORT 110® is supplied in ready-to-use sets according to mixing ratio. Make sure that the ingredients temperatures are between + 15 °C and + 25 °C before the mixing begins. **ACS FLOOR SPORT 110®** Component A should be thoroughly mixed in the epoxy/polyurethane resin mixer for 3 - 4 minutes with 300 -400 rpm mechanical stirrer. Then all of component B must be emptied into component A. Components A and B should be mixing until become homogenous (at least 3 minutes) used directly.

MIXING RATIOS

ACS FLOOR SPORT 110®	Component A	Component B
Mixture Water Amount	20 kg	4,0 kg
Mixture Density	1,60 kg/liter	

APPLICATION METHOD

Ready for use **ACS FLOOR SPORT 110®** mix is applied to the surface to be bonded with a notched trowel. Recommended consumption for **ACS FLOOR SPORT 110®** is 1,40 - 2,00 kg/m². Full curing time of **ACS FLOOR SPORT 110®** is 5-7 days.

TIPS TO NOTICE

- The relative humidity of air is highest % 80. During application ambient and surface temperature should be between +5°C and +35°C. In addition avoid application in extremely hot, rainy or windy weather.
- Surface temperature should be 3°C above the then dew point. (Please call our company for the Ambient temperature-Ambient Moisture-Dew Point table.)
- The materials to be used at the appropriate temperatures should be brought and stored in the application area 1-2 days

prior to the application and enabled to adjust the ambient conditions.

- In extremely cold conditions, heaters should be used to increase the ambient and the workability of the product, the packages should be preconditioned to +20°C - +25°C to become ready to use. Epoxy and polyurethane based floor coatings should be applied by specialists.
- The reaction and workability times of resin based systems depend on the ambient and substrate temperatures as well as the relative humidity. Under lower temperatures, the chemical reaction times are prolonged and this increases the pot life, coating interval and the working time. In addition to this, the consumption is increased as the viscosity increases. High temperatures ignite stronger chemical reactions and the above mentioned times decrease accordingly. Within 24 hours after completion of the coating contact with water should be avoided as it may cause surface carbonation and/or softening, both of which may make the coating lose its characteristics.

CLEANING OF TOOLS

Used tools and equipment can be cleaned with cellulosic and epoxy thinner after the application. Once cured **ACS FLOOR SPORT 110®** can only be removed by mechanical means.

PACKAGING

Component A: 20 kg pail Component B: 4 kg gallon

STORAGE

In unopened original package, it should be stored in a cool and dry environment at + 10 °C + 25 °C temperature protected from the freezing. In short-term storing, maximum 3 palettes can be stowed on top of each other and delivery has to be according to first in first out system. In long-term storing, the palettes must not be stowed on top of each other.

SHELF LIFE

The shelf life is 12 months from the date of production under suitable storage conditions.

SAFETY

During the application, work clothes, protective gloves, goggles and masks should be used in accordance with the Occupational Health and Safety Rules. Due to the irritating effects of uncured materials, the components should not be allowed to come into contact with the skin and the eye. In case of contact, immediately wash with plenty of water and soap. If swallowed, seek medical advice immediately. Food and beverages should not be left at the application areas. Keep out of reach of children.

□ Responsibility

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. ACS A PLUS CONSTRUCTION SOLUTION YAPI ANONİM ŞİRKETİ is only responsible for the quality of the product. ACS A PLUS CONSTRUCTION SOLUTION YAPI ANONİM ŞİRKETİ is not responsible for results that may occur because the product is used other than advised and/or out of instructions regarding the place and the method of use. This technical form is valid only till a new version is implemented and nullifies the old ones (06/2019)