

ACS FLOOR SPORT 130®

Polyurethane - Based, Two-Component,
Self-Leveling Flexible Flooring Material



■ Description

ACS FLOOR SPORT 130® is a polyurethane based two-component solvent-free self-leveling colored interlayer flooring material used as a multi-layer or thin layer flexible floor covering.

■ Places of use

- As 1-3 mm self-leveling coating on sports grounds.
- For exhibitions, exhibition halls and offices exposed to light pedestrian and vehicle traffic.
- In hospitals, polyclinics, laboratories where hygienic conditions and flexibility are important (anti-fatigue flooring)
- Children's playgrounds.
- As a shock-absorbing layer in flexible flooring systems in children's nurseries.

■ Technical Characteristics

- In indoor gyms. As outdoor sports flooring.
- On walking tracks and running tracks.

■ Advantages

- Easy to apply, self-leveling, even and smooth surface, long application time between coats.
- High pressure and abrasion resistance.
- Shock absorber.
- Creates a solid surface that does not require jointing.
- Has a comfortable, flexible anti-fatigue structure.
- Mechanically resistant to medium to high mechanical impact.
- Resistant to up to +80°C at humid temperature (without chemical and mechanical effect simultaneously) and up to +120°C dry heat.

TECHNICAL CHARACTERISTICS

ACS FLOOR SPORT 130® Component A	Polyurethane Resin
ACS FLOOR SPORT 130® Component B	Polyurethane Hardener
Color	Gray-Beige-Oxide yellow-Red
Consistency	Shiny
Density	1,30 ± 0,05 kg/liter (A+B / 20°C)
Shore A Hardness	80
Volume solid	%100 (A+B)
Mixing ratio	16:3,5 (A:B)
Usage time of mixture (+30°C)	60 minutes
(+10°C)	40 minutes
Waiting between layers	16 hours / 20°C 24 hours / 10°C
Ready for light traffic	2 days / 20°C
Fully cured	7 days / 20°C
Ambient temperature	+8°C -+ 35°C
Elongation at break	%120 /20°C
Rupture strength	115 kg/sm ²
Taber Abrasion Resistance	20 mg (full cure)

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

APPLICATION PROCEDURE / SURFACE PREPARATION

ACS FLOOR SPORT 130® is a part of ACS FLOOR SPORT® polyurethane coating system.

INFORMATION ABOUT SURFACE

Application substrate must be clean, dry, sound and have load-bearing structure. Oil, wax, grease, water repellents, loose parts and dust should be removed by surface preparation machine. The surface should be primed and mechanically roughened if necessary.

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MIXING

ACS FLOOR SPORT 120® is supplied as ready to use kits in the exact ratio. Before mixing precondition both A and B components to the temperature of +15 - +25°C. A Component of **ACS FLOOR SPORT 130®** contains pigment. Component A should be mixed for 3-4 minutes with epoxy / polyurethane resin mixer with 300 - 400 rpm until homogenous without letting air in. Then add all of Component B into Component A and make sure that all of Component B is used. Mix Component A and Component B until homogenous (at least 3 minutes) and start using directly.

MIXING RATIOS

ACS FLOOR SPORT 130®	Component A	Component B
Mixture Water Amount	16 kg	3,5 kg
Mixture Density	1,30 kg/liter	

APPLICATION METHOD

Ready for use **ACS FLOOR SPORT 130®** is applied with a notched trowel according to stated consumption or until desired dry film thickness is obtained, control by wet film comb. New layer application time is minimum 24 hours (20°C), maximum 4-5 days. Conform with the second coat application time mentioned above. Go over freshly spread flooring with a spiked roller to remove air bubbles. (Should be especially considered in applications above 1 kg/m² or 700 microns) Material achieves full mechanical and chemical resistance in about 7 days.

MATERIAL CONSUMPTION:

The amount of **ACS FLOOR SPORT 130®** required to create 1.0 mm thick coating on 1 m² surface is between 1,30-1,40 kg/m².

SAMPLE OF A SYSTEM

Covering of sports grounds

As impregnation of concrete surface: ACS EPOXY PRIMER-MAX®.....200-400 gr/m²

As adhesive for SBR rubber layer: ACS FLOOR SPORT 110®.....1400-2000 gr/m²

As carrier layer: SBR rubber layer (4-10 mm thickness) (Carrier layer thickness may vary due to specifications)

As a pore filler on the carrier layer: ACS FLOOR SPORT 120®.....400-600 gr/m² (Consumption varies depending on the pore structure of the SBR rubber layer.)

As a flexible ground layer: ACS FLOOR SPORT 130®.....2400-2600 gr/m²

As a colored topcoat: ACS FLOOR SPORT 130®.....200-300 gr/m²

TIPS TO NOTICE

- The relative humidity of air is highest % 80, Avoid application under excessive heat or wind and/or when the ambient and/or substrate temperature is below +5°C or above +35°C. Do not apply in extremely hot, rainy or windy weather. Make sure that weather is not rainy 24 hours before, during and 24 hours after application outdoors.

- 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 130®** can only be removed by mechanical means.

PACKAGING

Component A: 16 kg pail Component B: 3,5 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 palletes 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 palletes 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)