

ACS FLOOR EAS 500[®]

Epoxy Based, Two Component, Solvent Free,
Self Levelling Anti-Static Floor Coating Material



■ Description

ACS FLOOR EAS 500[®] epoxy based, smooth surfaced, easily cleaned, hygienic, anti-static, self-leveling floor coating system used on floors which are exposed to medium-heavy mechanical and chemical effects.

■ Place of usage

- Operating rooms.
- As electrostatically conductive surface coating on the concrete and cement surfaces.

- Aircraft hangars.
- Areas where explosive and flammable chemicals are manufactured and stored and used.
- In areas such as computer system rooms where sensitive electronic equipment is present; it is used to protect the equipment from the static electric.

■ Advantages

- High mechanical and chemical resistance.
- Shows excellent anti-static properties once fully cured.
- Easy to apply.

TECHNICAL CHARACTERISTICS

ACS FLOOR EAS 500 [®] Component A	Epoxy resin
ACS FLOOR EAS 500 [®] Component B	Epoxy hardener
Color	Various colors of RAL
Density	1,50 ± 0,05 kg/lit (A+B / 20 °C)
Solid Volume	%100 (A+B)
Mixing Ratio	20:5 (A:B - By volume)
Applying Time (+ 30°C)	30 Minutes
(+10°C)	55 Minutes
Waiting Between Coats	20 Hour / 20°C
Drying Time	3 Days / 20°C
Fully Cured Time	5 Days / 20°C
In a mixture with quartz sand at ratio of 1/0,4	
Density	1,60 ± 0,05 kg/lit (A+B)
Flexural Strength	40N/mm ² (Full Cured)
Pressure Strength	85 N/mm ² (Full Cured)
Electric Conductivity Resistance (RE)	10 ⁴ - 10 ⁵ Ohm
Grounding Resistance (EN 1081)	<10 ⁶ Ohms
Shore D Hardness	80

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

Surface must have at least 25 N / mm² compressive strength and at least 1.5 N / mm² pull-off test results. Concrete's age must be at least 28 days, concrete surfaces should have a maximum moisture content of 4-6%. Remove all loose and friable material, oil, paint residues, must be free from cement slurry. Problematic surfaces must be repaired beforehand. Cement shell and bright screed on concrete surface should be cleaned,

roughened and wiped by tools such as sanding, notching machine, tumble diamond grinding machines and forced grinding machines. All surfaces should be cleaned with industrial vacuum cleaner from dust. Concrete surfaces in contact with the soil to be coated should be previously treated with water and water vapor sealants.

MIXING

ACS FLOOR EAS 500[®] is supplied as ready to use kits in the exact ratio. Before mixing, precondition both A and B parts to the tem-

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perature of +15 °C - +25 °C. **ACS FLOOR EAS 500®** A Component contains pigment. Mix with epoxy / polyurethane resin mixer with 300 - 400 rpm mechanical stirrer for 3 - 4 minutes until it is homogenous. After pour the entire contents of B ingredient into the container of A ingredient; make sure that there is no product left in the ingredient B package. Components A and B must be used after homogenous mixing (at least 3 minutes).

MIXING RATIOS

ACS FLOOR EAS 500®	Component A	Component B
Mixture Amount	20 kg	4 kg
Mixture Density	1,40 kg/liter	

APPLICATION METHOD

ACS FLOOR EAS 500® depending on the consumption figure of the products in the system details, application toothed trowel should be done. When the coating is of desired consistency aerate the surface with the help of a spiked roller.

Priming Application : Made ready for application, the concrete surfaces are primed with **ACS EPOKSI PRIMER MAX®** solvent-free, transparent and epoxy concrete primer by saturating the surface thoroughly. Application can be performed by roller. After it gets dry, the appearance will be that of the wet concrete. Any concrete defects and cavities after the application of the primer are repaired and filled with epoxy mortar. And then the surface is primed again.

Conductive Coat Application : Copper strips with a minimum thickness of 40 microns after the priming of the primer are laid on the surface where epoxy primer has been applied to the whole area in such a way that a matrix with a maximum spacing of 10 meters will be formed. The ends of the copper tapes must be left on the wall base so that the ground connection can be made. **ACS FLOOR EAS 510®** is applied to the entire surface with a consumption of 200 gr / m² by roller or airless spraying.

Main Floor Application : Minimum 24 hours after application of the epoxy impregnation, 04. parts quartz sand of 0,1-0,3 is added to 1 part **ACS FLOOR EAS 500®** anti-static epoxy coating mixture and it is applied on the anti-static epoxy coating coat in thickness of 1.5mm.

COATING SYSTEM DETAILS

Intended Purpose	Used Materials	Consumption (kg/m ²)
Primer	ACS EPOKSI PRIMER MAX®	0,40 - 0,60
Earthing connection	Self-adhesive copper tape to be applied to a diameter of about 10 m.	
As Conductive Coat	ACS FLO OR EAS 510®	0,15 - 0,20
As Bearing Coat	ACS FLOOR EAS 500®	1,80
Filler Sand	Silica Sand 0,1 - 0,3 mm	0,75

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 +10°C or above +35°C.

- 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. After completion of the coating, the coating should be protected from direct contact with water for at least 24 hours. If a water contact, this coating will create on carbonation and softening, which will cause it to lose the properties of the coating.

CLEANING OF TOOLS

Tools and equipment used after application can be cleaned with cellulosic or epoxy thinner. Once cured **ACS FLOOR EAS 500®** can only be removed by mechanical means.

PACKAGING

Component A : 20 kg pails 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)