

ACS EPOXY PRIMER-E®

Epoxy Resin Based, Two Component,
Transparent Primer



■ Description

ACS EPOXY PRIMER-E® is an epoxy resin based, two component, low viscosity, solvent free, transparent primer material.

■ Place of usage

- It is mixed with silica sand in suitable amounts and is used in filling and repair mortar production.
- Silica is mixed with sand to make chamfer.
- Prior to epoxy and polyurethane flooring systems as primer material.
- As binder for preparation of epoxy mortar to obtain thickness of 5 - 8 mm.

- As concrete primer to wet the concrete surface and provide a good adhesion bridge before top-coats of epoxy mortar, epoxy self-leveling screed, epoxy laminate or epoxy/polyurethane.
- For repairing big cracks and forming chamfering by mixing with silica sand or different additives.

■ Advantages

- High adhesion and wetting ability.
- Low viscosity.
- Endurance against heavy loads.
- Solvent free.

TECHNICAL CHARACTERISTICS

ACS EPOXY PRIMER-E® Component A	Epoxy resin
ACS EPOXY PRIMER-E® Component B	Epoxy hardener
Color	Transparent-colorless
Density	1,08 ± 0,05 kg/lit(A+B / 20 °C)
Solid Volume	%100 (A+B)
Mixing Ratio	10 : 3,5 (A:B - By volume)
Applying Time (+10°C)	60 Minutes
Applying Time (+30°C)	25 Minutes
Recoating	12 Hours -20 °C
Waiting Between Coats (Max)	1-2 Days
Drying Time	1 Days / 20 °C
Fully Cured	7 Days / 20 °C
Ambient Temperature	+8 °C -+ 35 °C
Surface Temperature	+8 °C -+ 35 °C

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 EPOXY PRIMER-E® is a primer for epoxy, polyurethane coating systems. The compressive strength of the concrete floors to be applied should be 25 N / mm² and shear test and pull-off tests' results 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. Damaged surfaces should be repaired beforehand. 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.

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MIXING

ACS EPOXY PRIMER-E® is supplied as ready to use kits in the exact ratio. Before mixing, precondition both A and B parts to the temperature of +15°C - +25°C. ACS EPOXY PRIMER-E® A Component epoxy / polyurethane resin Mixing should be thoroughly mixed with air with 300 - 400 rpm mechanical stirrer for 3 - 4 minutes. 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 EPOXY PRIMER-E®	Component A	Component B
Mixture Amount	10 kg	3,50 kg
Mixture Density	1,08 kg/liter	

APPLICATION METHOD

When ready for application the product is applied by roller or airless spray until the surface is saturated well and pores are closed. Waiting time between layers is minimum 12 hours (20°C) and maximum 5 days. It is very important that the second layer should be applied within the time specified above. It reaches full mechanical and chemical endurance in about 7 days.

As Primer and Bonding Bridge: Apply it by brush or trowel. Make sure that a continuous, pore free coat covers the substrate. If necessary, apply two priming coats.

As Leveling Mortar: ACS EPOXY PRIMER-E® Apply it by trowel or squeegee to the required thickness.

CONSUMPTION

The following values are suggestive and may include additional material consumption depending on surface quality, leveling differences and the structure of the surface

As impregnation primer: 200-300 gr/m² (depending on the pore surface of the concrete)

As bonding bridge: 200-400 gr/m²

TIPS TO NOTICE

- Havanın bağıl nemi en çok % 80, uygulamada, ortam ve 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 +8°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 not fall below + 8 °C at an air temperature of at least 36-48 hours, and no direct water contact and snow is allowed on the newly applied product. Within this period, a contact with water may cause a surface carbonation and/or tackiness both of which may make the coating lose its characteristics.

CLEANING OF TOOLS

Tools and equipment used after the application can be cleaned with cellulosic thinner or water. Once cured ACS EPOXY PRIMER-E® can only be removed by mechanical means.

PACKAGING

Component A: 10 kg pail Component B: 3,50 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)