

ACS AQUA EPOXY PRIMER®

Water Based, Transparent, Epoxy Primer



■ Description

ACS AQUA EPOXY PRIMER® is an epoxy resin based, two-component water-based transparent, non-absorbent surface primer material.

■ Place of usage

- Is mainly used as a primer for polyurethane coatings and polyurethane joint-sealants on nonabsorbent surfaces like:
- Ceramic tiles, marble.
- Steel.
- Concrete.

- Aluminum.
- Asphalt.
- Bitumen-felts.
- Glass.

■ Advantages

- Can be applied on damp concrete.
- Water based, odorless.
- Can be diluted with water.
- Simple application (roller or brush).
- Excellent adherence to non-absorbent surfaces.
- Can be applied on moist surfaces, without loss of adhesion.

TECHNICAL CHARACTERISTICS

ACS AQUA EPOXY PRIMER® Component A	Water based epoxy resin
ACS AQUA EPOXY PRIMER® Component B	Epoxy hardener
Color	Colorless
Density	1,02 ± 0,05 kg/lt (A+B / 20°C)
Solid Volume	%61 (A+B)
Mixing Ratio	10 : 3 (A:B - By volume)
Applying Time (+10°C)	60 Minutes
Applying Time (+30°C)	50 Minutes
Recoating	4 Hours -20°C
Waiting Between Coats (Max)	1-2 Weeks
Drying Time	1 Days / 20°C
Fully Cured	7 Days / 20°C
Adhesion to aluminum	>2,0 N/mm²
Adhesion to moist concrete	>1,5 N/mm²
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 AQUA EPOXY PRIMER® 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 AQUA EPOXY PRIMER® is supplied as ready to use kits in the exact ratio. Before mixing, precondition both A and B parts to the temperature of +15 - +25°C. **ACS AQUA EPOXY PRIMER®** 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). **ACS AQUA EPOXY PRIMER®** If necessary to adjust the viscosity of the product; Mix Components A and B with a mechanical stirrer for 1-2 minutes then add 20-30% water and continue mixing for at least 3 minutes to homogenize the mixture. The mixture should be rested for 3-5 minutes after preparation and should be used within 1 Hour at most.

MIXING RATIOS

ACS AQUA EPOXY PRIMER®	Component A	Component B
Mixture Amount	10 kg	3,0 kg
Mixture Density	1,02 kg/liter	

APPLICATION METHOD

Apply the **ACS AQUA EPOXY PRIMER®** by roller or brush, until the surface is covered. After approx. 8-12 hours (not later than 24 hours) and while the primer is still a bit tacky, apply the polyurethane coating or the polyurethane joint-sealant.

CONSUMPTION

ACS AQUA EPOXY PRIMER® as impregnation and transition primer: 150 - 250 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 +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 can be cleaned with cellulosic thinner or water after the application.

PACKAGING

Component A : 10 kg pail Component B : 3,00 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 9 months from the date of production under suitable storage conditions

SAFETY

It is dangerous to approach the application sites with fire. Fresh air should be circulated in the storage and the application sites. During the application, a protective apparel, protective gloves, goggles and masks which comply with the Occupational Health and Safety Precautions Rules should be used. Due to the irritation effect of the uncured materials, the mixture should not come into contact with skin and eyes; in case of a contact, the affected area should be washed with plenty of water and soap; in case of swallowing, a physician should be consulted immediately. No food or beverages should be brought to the application area. The product should be stored and kept 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)