

ACS PU TRANS[®]

Polyurethane Based, One Component,
Transparent Liquid Waterproofing



■ Description

ACS PU TRANS[®] is a one component cold applied aliphatic PU based transparent waterproofing membrane used for protection.

■ Place of usage

- Terraces and balconies.
- Concrete.
- Metal surfaces.
- Glass and glassy surfaces.
- Marble.
- Wet areas (Kitchen, bathroom etc.).
- Ceramic surfaces.
- Natural stones.

■ Advantages

- UV- resistance.
- Non-yellowing.
- Do not bubble.
- Excellent adhesion
- Excellent mechanical properties.
- Good weathering resistance.
- Simple application (roller or airless spray).
- As it is pure polyurethane, it can continually with water.
- Maintains its mechanical properties over a temperature span of -40°C to +90°C.
- Excellent adhesion.
- Resistant of chemicals, it provides permanent elasticity and glossy.

TECHNICAL CHARACTERISTICS

ACS PU TRANS[®]	Polyurethane resin
Color	Transparent-semi-matte
Density	1,00 ± 0,05 kg/lit (20 °C)
Elongation at Break-Elongation Percentage (ASTM D 412)	≥ %350
Adherence On Concrete (+23°C-ASTM D 903)	≥ 2 N/mm ²
Tensile Force at Break (ASTM D 412)	≥ 35 N/mm ²
Wear resistance (DIN ISO 34)	58 N/mm ²
Water Vapor Permeability (ASTM E 96)	0,8 gr/m ² Hour
Shore A (hardness) (DIN 53505)	40
Service Temperature	-40°C -+ 90°C
Temperature Resistance	80°C 100 days & 200°C Dry sudden heat
Implementation Time (+30°C)	40 Minutes
Recoating	6-24 Hours -20°C
Drying Time	1/ 2 Day / 20°C
Fully Cured	7 Days / 20°C
Ambient Temperature	+10°C -+ 35°C
Surface Temperature	+10°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

ACS PU TRANS[®] All surfaces must be cleaned from oil, grease and moisture before the application. Clean the surface using a high pressure washer and remove oil, grease and wax contaminants, cement laitance, loose particles and mould

release agents must be removed. Fill surfaces irregularities with the relevant product. Surfaces with trapped moisture (e.g. trapped moisture under balconies tiles) must be left to dry completely (max. 5% moisture), before the application of the **ACS PU TRANS[®]** coating.

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PRIMING

Prime (activate) non-absorbent glazed surfaces, like glazed ceramic tiles, glass and glass bricks with **ACS PU TILE PRIMER®**. Non-porous surfaces such as glass, glass tiles, tiles and ceramics should be primed with **ACS PU TILE PRIMER®**. **ACS PU TILE PRIMER®** should be applied by a cloth or a roller and the priming should be done properly on the surfaces. Change cloths often. Make sure that enough quantity of **ACS PU TILE PRIMER®** is applied on the entire surface to be primed and make sure that you do not leave any untreated spots.

APPLICATION METHOD

Poor the **ACS PU TRANS®** coating onto the primed surface and lay it out by roller or by 1 mm teeth trowel until all surface is covered. After 12 hours – but not later than 18 hours – apply a second layer of the **ACS PU TRANS®** coating, by using roller or brush. For better waterproofing and wear resistance results, apply a third layer of the **ACS PU TRANS®** coating.

CONSUMPTION

ACS PU TRANS® 0,8 – 1,4 kg/m² in two or three layers.

TIPS TO NOTICE

- Do not apply the **ACS PU TRANS®** on ceramic surfaces with ascending nitric salts in the joints, without suitable pre-treatment.
- Do not apply the **ACS PU TRANS®** on surfaces treated in the past with active silane, siloxane, silicon or other waterrepellents, because of expected poor adhesion.
- Do not apply the **ACS PU TRANS®** over 1mm thickness (dry film) per layer.
- 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 firm 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 the application the temperature should not fall below +8 °C for at least 36-48 hours, the newly applied material should be protected from direct contact with water and snow.

CLEANING OF TOOLS

Used tools and equipment must be cleaned carefully with an appropriate solvent.

PACKAGING

ACS PU TRANS® is supplied in 20 kg, 10 kg, 5 kg and 1 kg pails.

STORAGE

The product should be stored in unopened original package at temperatures between +10- +25 in a cool and dry place protected from freezing. For short term storage, maximum 3 pallets should be placed on top of each other and the shipment should be made on a 'first in - first out' basis. Pallets should not be placed on top of each other during long term storage.

SHELF LIFE

The shelf life is 9 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)