

ACS POLYURETHANE TC TEXTURE[®]

Polyurethane Based, Two Component,
Flexible, Solvent Free, Thixotropic Coating
System



■ Description

ACS POLYURETHANE TC TEXTURE[®] is a polyurethane resin based, two-component solvent free colored orange peel textured topcoat protection material. Abrasion and chemicals resistant.

■ Place of usage

- Car park areas,
- Warehouses,
- For floors exposed to indoor, medium and heavy loads.
- Factories
- Production areas
- Packing areas.
- Aircraft hangars.

- Garages,
- Exhibitions and fairgrounds.

■ Advantages

- Easy to apply.
- Textured (orange peel) and non-slip.
- Resistant to diesel, gasoline and many other chemicals.
- High chemical resistance.
- Mechanical high resistance.
- Abrasion high resistance.
- Flexible.
- It is suitable for application with airless spray paint application machines.

TECHNICAL CHARACTERISTICS

ACS POLYURETHANE TC TEXTURE [®] Component A	Polyurethane resin
ACS POLYURETHANE TC TEXTURE [®] Component B	Polyurethane hardener
Color	Various colors of RAL - Semi-Shiny
Density	1,45 ± 0,05 kg/lit (A+B / 20 °C)
Solid Volume	%86 (A+B)
Mixing Ratio	15:5 (A:B - By volume)
Applying Time (+30°C)	40 Minutes
(+10°C)	60 Minutes
Waiting Between Coats	24 Hours / 20°C
Drying Time	1-2 Days / 20°C
Fully Cured Time	5-7 Days / 20°C
Ambient Temperature	+8°C -+ 35°C
Surface Temperature	+8°C -+ 35°C
Taber Wear Resistance	45 mg (Fully Cured)

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 POLYURETHANE TC TEXTURE[®] 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. Concrete surfaces in contact with the soil to be coated should be previously treated with water and water vapor sealants.

MIXING

ACS POLYURETHANE TC TEXTURE[®] is a two-component product and it should be prepared at the mix ratio specified for the

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quantity to be used, taking into consideration the pot life. For a homogenous mixture, make sure that the product temperature is not less than 15°C. The product is provided as ready-made sets. Before mixing, precondition both A and B ingredients in the temperature of +15 - +25°C. **ACS POLYURETHANE TC TEXTURE®** A Component contains pigment. Mix with epoxy / polyurethane resin mixer with 300 - 400 rpm mechanical stirrer for 3 - 4 minutes without air dragging 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. After stirring leave for 3-5 minutes and then apply.

MIXING RATIOS

ACS POLYURETHANE TC TEXTURE®	Component A	Component B
Mixture Amount	15 kg	5,0 kg
Mixture Density	1,45 kg/liter	

APPLICATION METHOD

ACS EPOXY PRIMER-N® or **ACS EPOXY PRIMER MAX®** with primed surface **ACS POLYURETHANE TC TEXTURE®** After made ready to apply, the mixture is preferably applied by airless spray or roller with short hair in amount specified in the paint system or in such amount to obtain the desired dry film thickness. If it is desired that the fresh flooring spread over the surface completely should give a thicker orange peel appearance, the paint film is combed by using coral roller 10-15 minutes after the application. Wait time between the coats is minimum 24 hours (20°C) and maximum 5 days. It is very important that the second coat should be applied within the time for overcoating specified above. It reaches full mechanical and chemical endurance in about 7 days.

1.80-2.00 mm COATING DETAIL

Intended Purpose	Used Materials	Consumption (kg/m²)
Primer (Impregnation primer)	ACS EPOKSI PRIMER MAX®	0,30-0,40
Bearing Primer	ACS EPOKSI PRIMER-N®	0,40-0,50
Filler Sand	Silica Sand 0,1-0,3 mm	0,20-0,25
Scatter Sand	Silica Sand 0,1-0,3 mm/0,3-0,8 mm	2,00-2,50
Pore Sealer	ACS POLYURETHANE TC TEXTURE®	0,70-0,90
Filler Sand	Silica Sand 0,1-0,3 mm	0,30-0,40
Coating	ACS POLYURETHANE TC TEXTURE®	0,60-0,80

Consumption is theoretical and may vary depending on the quality of the concrete floor to be applied.

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 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 POLYURETHANE TC TEXTURE®** can only be removed by mechanical means.

PACKAGING

Component A : 15 kg'lık pails Component B : 5 kg'lık 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 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)