

ACS SEAL NP STANDART[®]

Cement and Acrylic Based, Two Component, Applicable on Either Positive or Negative Side Waterproofing Material



■ Description

ACS SEAL NP STANDART[®], is a cement and acrylic based polymer two components waterproofing coating used on concrete surfaces suitable for negative and positive applications with capillary effect.

■ Place of usage

- Interior and exterior areas for vertical and horizontal applications.
- Water tanks.
- Wet area like WC, bathroom, kitchen and balcony.
- Waterproofing of foundations and curtains.
- Basement floors.
- Swimming pools.
- Elevator pits.
- Waterproofing of nutrient storage.
- Reinforced concrete pipes.
- To protect concrete from water, carbonation and deicer salts.
- In insulation of flower gardens.
- Waterproofing of fish growth ponds.

- Waterproofing of hydroelectric power plants.

■ Consumption

First Coat	: 1.30 kg/m ² mixture
Second Coat	: 1.20 kg/m ² mixture
Third Coat	: 1.20 kg/m ² mixture

■ Advantages

- Resistant to negative and positive water pressures (4 bar negative 10 bar positive)
- High durability.
- Easy to prepare and apply.
- ACS SEAL NP STANDART[®] has capillary effect
- Long working time.
- Applied by brush or spraying machine.
- Very high adhesion strength. Works together with the surfaces.
- It has water vapor and air permeability.
- Resistant to freeze-thaw cycle.
- Non-shrinking and non-cracking.
- Can be safely used in drinking water tanks.

TECHNICAL CHARACTERISTICS

ACS SEAL NP STANDART [®] Component A		Special Cement, Mineral Fillers, Polymer.	
ACS SEAL NP STANDART [®] Component B		Copolymer acrylic dispersion	
Color		Grey	
Adhesion Strength		1, 5 N/mm ² (28 Days)	
Tensile Strength		3, 5 N/mm ² (28 Days)	
Resistance to Water Pressure		4 bar negatif - 10 bar positif	
Water Vapor Permeability		85-120	
The Temperature of The Ground		+7 °C - +30 °C	
Service Temperature		-20 °C - +80 °C	
Pot Life		45 Minutes	
Ready to use	Mechanical Strength	2 Days	
		7 Days	
Waiting Between Coats		+10 °C	12-15 Hour
		+20 °C	6-8 Hour
		+30 °C	3-5 Hour
Coating	With plaster	3 Days	
	With ceramic	3 Days	

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The above figures are valid for 23 °C and intended as a guide only and should not be used as a basis for specifications.

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APPLICATION PROCEDURE / PREPARATION OF SUBSTRATE

Cement based surfaces of the structures contacting with water have to be strong, dry, bearing, dustless, clean, and also in balance. Surface should be cleaned thoroughly with water jet, all kinds of oil, grease, rust and paraffin residue which will weaken the adherence and pores should be opened in order to increase adherence by taking loose particles on the surface. Iron and wooden wedges must be removed from the surface. Any water leakages, non-uniform surface and corner edges must be repaired with suitable prepare mortar, minimum radius of 4 cm with **ACS MORTAR**® group. Before application, surface should be wetted (not allowed to be pond). If the Coating Material loses its water immediately and gets matt that shows the surface does not get wet sufficiently or dry fastly. At such as hot weathers or in case of material is exposed to wind; water added up to 10% of B Component to the mixture prepared for first layer.

MIXING

Pour liquid component B “**ACS SEAL NP STANDART**” and recommended amount of water into a clean mixing container and slowly add powder component A “**ACS SEAL NP STANDART**” while mixing with a 400 - 600 RPM mixer. Continue mixing for at least 3-5 minutes until a homogenous and uniform mixture is obtained. Wait for 3-5 minutes and mix again for approximately 1 minute and becomes ready to use.

MIXING RATIOS

ACS SEAL NP STANDART®	Component A	Component B	Karışım Suyu
Mixture Amount	25 kg	2 kg	5,00-5,50 kg
Mixture Density	~1,98 kg/liter		

APPLICATION METHOD

Prepared **ACS SEAL NP STANDART**® mixture is applied by Insulation brush or trowel as two or three layers. Brush application direction in each layer must be perpendicular to each other. Waiting period between each layer changes depending on environmental conditions.

TIPS TO NOTICE

- If surface temperature is below +5°C or over +30°C in **ACS SEAL NP STANDART**® application, then suitable temperatures must be waited for. Also application should not be made in very hot, rainy or windy weathers.
- In outer surface applications, the surface has to be protected from sun, wind, frost or rain during the first 24 hours.
- **ACS SEAL NP STANDART**®, applied in +23°C gains echanic strength after 2 days, becomes impermeable to water after 7 days, and gains final strength after 14 days.
- Working and reaction time of cement and acrylic based sys-

tems are affected by environment and ground temperature, and relative humidity in the air. Low temperatures slow down the chemical reaction, and increase working period, coating time, and work time. Also coverage decreases because viscosity increases. High temperatures accelerate the chemical reaction and times stated above are reduced depending on this. For the material to complete its curing, environment and ground temperatures must not fall down below the minimum allowed value.

- Wet film thickness must not pass 2 mm in single layer. The application has to be at least two layers.
- The surfaces that will be walked on have to be coated with screed or ceramics treated with **ACS LATEX 5**®.

CLEANING OF TOOLS

All the tools and equipments must be cleaned by water after the application. After **ACS SEAL NP STANDART** is hardened, it can only be removed from the surface mechanically.

PACKAGING

Component A: 25 kg polyethylene reinforced kraft bag
Component B : 2 kg tin.

STORAGE

Must be stored in unopened original packing, and in cool and dry environment protected from 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. Sıvı Component **ACS SEAL NP STANDART**® Component B is frozen under 0°C. Opened packages have to be stored by tightly sealing the bag/cover, and must be used in one week.

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. Please look at the Material Safety Data Sheet for detailed information.

□ 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)