

ACS SEAL 107®

Cement and Acrylic Based, Two Component,
Semi-Flexible Waterproofing Material



■ Description

ACS SEAL 107®, is a cement and acrylic based dual component water insulation material used on concrete and cement based plasters, two component semi-flexible waterproofing material.

■ Place of usage

- In inner and outer areas for vertical and horizontal applications from the direction of coming water.
- In insulation of foundations.
- In supporting walls.
- In insulation of flower gardens.
- Swimming and thermal pools.
- In water tanks.
- Cold weather storm walls and floors.
- In wet area like WC, bathroom, kitchen, and balcon.
- Terraces (on condition of protecting the top).

■ Consumption

First Coat	: 1.40 kg/m ² mixture
Second Coat	: 1.20 kg/m ² mixture
Third Coat	: 1.00 kg/m ² mixture

■ Advantages

- Easy to prepare and apply.
- Semi-flexible and waterproof.
- Long working time.
- Water vapor permeable.
- Applied by brush or spraying machine.
- Forms a water impermeable layer under grouts and ceramics with high adhesion performance and half-flexible structure.
- Forms a jointless, seamless, permanent, water impermeable coating.
- Can be safely used in drinking water tanks.
- Resistant to freezing - thawing cycle.
- Resistant to chemicals and salt solutions in soil.

TECHNICAL CHARACTERISTICS

ACS SEAL 107® Component A		Special Cement, Mineral Fillers, Polymer.	
ACS SEAL 107® Component B		Copolymer acrylic dispersion	
Color		Grey	KR
Adhesion Strength		≥ 1,50 N/mm ² (28 days)	
Resistance to Water Pressure		2 bar (positive)	
Capillary Water Absorption (TS EN 12808-5)		≤ 0,10 gr (4 Hour after)	
The Temperature of The Ground		+7 °C +30 °C	
Service Temperature		-20 °C +80 °C	
Surface Drying		3 - 5 Minutes	
Usage time		2 Hours	
Ready to use	Mechanical Strength	2 Days	
	Waterproof	7 Days	
Waiting Between Coats		+10 °C 12 - 15 Hours	
		+20 °C 5 - 8 Hours	
		+30 °C 4 - 5 sHours	
Coating	With plaster	3 Days	
	With ceramic	3 Days	

NOTE: The above values are given at + 23 °C and 50% relative humidity environment. High temperatures shorten the time, low temperatures prolong the time.

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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

Liquid component B **ACS SEAL FLEX 107®** is poured into a clean mixing container and powder component A **ACS SEAL FLEX 107®** is slowly added to the container and mixed with a 400 - 600 RPM mixer at least for 3-5 minutes until a homogeneous and uniform mixture is obtained. After waiting for 3-5 minutes, the mixture is mixed again for approximately 1 minute, and becomes ready to use **ACS SEAL FLEX 107®** Component A 20 kg powder; **ACS SEAL FLEX 107®** Component B is mixed with 10 kg of liquid.

MIXING RATIOS

ACS SEAL 107®	Component A	Component B
Mixture Amount	20 kg	5 kg
Mixture Density	1,90 kg/liter	

APPLICATION METHOD

Prepared **ACS SEAL FLEX 107®** 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 FLEX 107®** 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 FLEX 107®**, 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 systems 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 by **ACS LATEX 5®** grout.

CLEANING OF TOOLS

All the tools and equipments must be cleaned by water after the application. After **ACS SEAL FLEX 106®** is hardened, it can only be removed from the surface mechanically.

PACKAGING

Component A : 20 kg polyethylene reinforced kraft bag, Component B : 5 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 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 12 months from the date of production under suitable storage conditions. Component B **ACS SEAL FLEX 107®** of freezes below 0°C. Opened packages have to be stored by tightly sealing the bag/cover, and must be used in one week

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)