

ACS SEAL FLEX 106®

Cement and Acrylic Based, Two Component,
Full Flexible Waterproofing Material



Description

ACS SEAL FLEX 106®, is a cement and acrylic based fully flexible dual component water insulation material used on concrete, and cement based surfaces which is applied to protect from leaking and surface waters.

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.
- Grounds that are expected to be deflected.
- Balcony and terraces (on condition of protecting the top).
- In wet volumes like WC, bathroom, kitchen, and balcony.
- In olympic swimming pools.
- In water tanks (on condition of protecting the top).
- In facilities like spa and hamams.
- In insulation of flower gardens.

Consumption

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

Advantages

- Easy to prepare and apply.
- Ability to bridge shrinkage cracks with its highly flexible structure.
- Long working time.
- Fully flexible and waterproof.
- Resistant to freezing - thawing cycle.
- Applied by brush or spraying machine.
- Forms a perfect water impermeable, nondeformable layer under grouts and ceramics with high adhesion performance and flexible structure.
- Forms a jointless, spliceless, permanent, moisture and water proof coating.
- Water vapor permeable.
- Resistant to chemicals and salt solutions in soil.
- Can be used in areas affected by movement and vibration.

TECHNICAL CHARACTERISTICS

ACS SEAL FLEX 106® Component A		Special Cement, Mineral Fillers, Polymer.		KR 
ACS SEAL FLEX 106® Component B		Copolymer acrylic dispersion		
Color		Greenish Grey		
Adhesion Strength		≥ 1,00 N/mm²		
Resistance to Water Pressure (DIN 1048)		7 bar (positive)		
Capillary Water Absorption (TS EN 12808-5)		≤ 0,10 gr (4 Hours after)		
The Temperature of The Ground		+7 °C +30 °C		
Service Temperature		-20 °C +80 °C		
Surface Drying		3 - 5 Minutes		
Usage time		2 Hour		
Ready to use	Mechanical Strength Waterproof	2 Days		
		7 Days		
Waiting Between Coats		+10 °C	12-15 Hours	
		+20 °C	6-8 Hours	
		+30 °C	3-5 Hours	
Coating	With plaster	3 Days		
	With ceramic	3 Days		

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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 106®** is poured into a clean mixing container and powder component A **ACS SEAL FLEX 106®** is slowly added to the container and mixed with a 400 - 600 RPM mixer at least for 3-5 minutes until a homogenous and uniform mixture is obtained. After waiting for 3-5 minutes, the mixture is mixed again for approximately one minute, and becomes ready to use. **ACS SEAL FLEX 106®** Component A 20 kg powder; **ACS SEAL FLEX 106®** Component B is mixed with 10 kg of liquid.

MIXING RATIOS

ACS SEAL FLEX 106®	Component A	Component B
Mixture Amount	20 kg	10 kg
Mixture Density	1,70 kg/liter	

APPLICATION METHOD

Prepared **ACS SEAL FLEX 106®** 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 +25°C in **ACS SEAL FLEX 106®** 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 106®**, applied in +23°C gains mechanic strength after 2 days, becomes impermeable to water after 7 days, and gains final strength after 14 days.
- Higher temperatures decrease the time, lower temperatures increase the time.
- 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 : 10 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 106®** 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)