

ACS SHOCK 120[®]

Cement Based, Fast Setting Mortar for Plugging Active Water Leakage



■ Description

ACS SHOCK 120[®], is a high adherence, special cement and mineral filler containing ready to use repair mortar that instantly sets and hardens by expanding when mixed with water and is used for stopping of active water leakages.

■ Place of usage

- Interior and exterior areas for vertical and horizontal applications.
- Stopping of active water leakages.
- Repairs of deformations on concrete.
- Filling tie-rod cavities inside molds.
- Chamfering of corners, joints and repairing cold joints.
- Filling and sealing water leakages before waterproofing.

■ Consumption

Variable according to production.

■ Advantages

- Single component, only mixed with water.
- Stops active water leakages by setting instantly.
- Easy to use.
- Expands and forms a watertight structure.
- Highly resistant and stable.
- Waterproofing materials can be applied on it after 15 minutes.
- Applicable to all concrete surfaces.
- No primer required.
- Does not cause corrosion of steel equipments chloride free.
- Does not shrink.

TECHNICAL CHARACTERISTICS

Composition	Special cement and mineral fillers
Color	Grey
Pressure Strength 30 minutes	7 N/mm ²
24 Hour	15 N/mm ²
28 Days	30 N/mm ²
Application Thickness	10 mm -30 mm
Service Temperature	-20 °C - +80 °C
Pot Life	1-1,5 Minutes

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 / PREPARATION OF SUBSTRATE

Application surface must be strong, dry and cleaned off all kinds of oil, grease, rust, pitch, paint and curing materials that can weaken adherence. Existing cracks and spaces must be cut in 20 mm width and with perpendicular sides.

MIXING

Put adequate amount of ACS SHOCK 120[®] to be used in 60 seconds into a clean mixing container and add necessary amount of water. Mix with hand by using a glove. Do not mix it for more than 30 seconds. Do not add aggregate, any chemicals or foreign materials to the mixture.

ACS SHOCK 120®

Cement Based, Fast Setting Mortar for Plugging Active Water Leakage

MIXING RATIO

ACS SHOCK 120®	7 kg
Mixture Water Amount	1,70-2,00 liter
Mixture Density	~1,93 kg/lit

APPLICATION METHOD

Repairing Active Water Leakages: Open the crack that has active water leakage with minimum 20 mm width and depth or until reaching to the sound substrate. Mix **ACS SHOCK 120®** with necessary amount of water and make it conical shape in your hand and apply it on the leaking region with a single motion, when the mixture starts to heat. Apply pressure with your hand for at least 60 seconds by keeping your hand still. After the material hardens, slowly take your hand away. If the space is too large to be filled in one time, then repeat this procedure by going from the perimeter of the space to its center. Right after the application, clean the extra material around the space with suitable equipments.

Sealing at Construction Joint: Open the cold joint with minimum 20 mm width and depth or until reaching to the sound substrate. Remove wires, wooden wedges or similar materials from the surface. Fill the joint appropriately with **ACS SHOCK 120®**.

TIPS TO NOTICE

- **ACS SHOCK 120®**, wait for the appropriate ambient and substrate temperature if it is less than 5°C or more than 30°C. Also application should not be made in very hot rainy or windy weathers.
- As a result of rising hydration temperature, **ACS SHOCK 120®** sets quickly. It must be kept damp for 15 minutes. This period must be 30 minutes in dry and absorbent surfaces.
- Working and reaction time of special cement containing 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.

CLEANING OF TOOLS

All the tools and equipments must be cleaned with water after the application. After **ACS SHOCK 120®** is hardened, it can only be removed from the surface mechanically.

PACKAGING

7 kg tin.

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 6 months from the date of production under suitable storage conditions. **ACS SHOCK 120®** Freezes at temperatures below 0 °C. Opened packages should be closed firmly and consumed within 1 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. Please refer to 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)