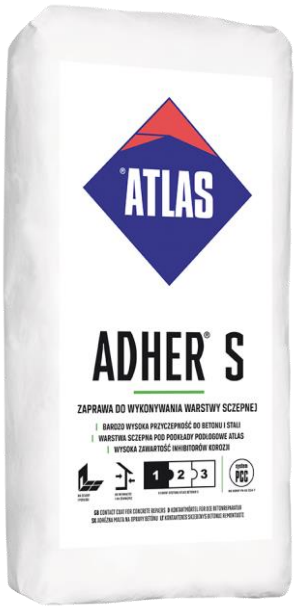


# ATLAS ADHER S

## contact coat for concrete repairs

- very high adhesion to concrete and steel
- bonding layer for ATLAS cement-based floor underlays
- high content of corrosion inhibitors


## Properties

**ATLAS ADHER S is produced as a dry mix of the highest quality cement binder, quartz fillers and additives.**

**Provides active protection for the reinforcement** - thanks to its high content of corrosion inhibitors.

**It has high adhesion to concrete and reinforcing steel** - thanks to a specially selected composition of cementitious binders and new generation powder resins.

**Thoroughly covers surface irregularities** - fluid consistency and thixotropy enable effective, easy and quick application on horizontal and vertical surfaces.

**Ensures that the repair layers work together with the substrate.**

## Purpose

**Forms a bonding layer between the substrate and:**
- repair material in the ATLAS BETONER S system,
- cementitious screeds of the ATLAS POSTAR range,
- repair mortars ATLAS ZW 330.

**It is part of the ATLAS BETONER S system for repairing structural and finishing elements** - balconies, terraces, ceilings, beams, columns, stairs and frame structures, monolithic structures, tanks, cooling towers and chimneys and other concrete and reinforced concrete structural and non-structural elements.

**ATLAS BETONER S SYSTEM**

| | |
|---|---|
| Contact layer | ATLAS ADHER S |
| Main layer of repair | ATLAS FILER S |
| Finishing layer | ATLAS ENDER S |

**Active corrosion protection of reinforcement -** (EN 1504-9, principle 11, method 11.1).

## Technical data

| | |
|---|---|
| Bulk density (dry mix) | approx. 1.1 kg/dm³ |
| Mixing ratio<br>water / dry mix | 0.32÷0.35 l / 1 kg<br>8.0÷8.75 l / 25 kg |
| Adhesion to concrete | min. 1.5 MPa |
| Temperature of mortar preparation and substrate and ambient temperature during the work | from +5 °C to +25 °C |
| Maturation time | approx. 5 minutes |
| Pot life | approx. 2 hours |
| Open time | min. 15 minutes |

The times indicated in the table are recommended for application conditions of approx. 20 °C and 50-60 % humidity.

## Technical requirements

The product meets the requirements of EN 1504-7:2007.

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|---|
| ATLAS ADHER S (2019)<br>Declaration of performance No. 085-1S/1/CPR<br>EN-1504-3:2005 (PN-EN 1504-7:2007) |
| Intended use: in buildings and engineering works. |

## Repairs to the substrate

Substrate preparation

**Concrete substrate**. It should be stable and load-bearing, i.e. sufficiently strong (stripping strength at least 1.5 MPa), cleaned from layers that could weaken the adhesion of the mortar. Loose and separating layers of concrete, cement laitance should be removed from the surface to be repaired and it should be cleaned of dust, dirt, lime, oil, grease, wax, oil and emulsion paint residues. Concrete substrates that are significantly damaged, soiled or chemically or biologically corroded should be subjected to special treatments such as sandblasting, shot-blasting, milling, degreasing, etc. Immediately before the application of ATLAS ADHER S, the substrate should be wetted with water.

**Reinforcement.** The uncovered surfaces of the reinforcement should be cleaned, e.g. by sandblasting, from rust and any other soiling to a cleanliness grade SA 2. The surface must be cleaned from rust deposits and other separating or corrosion accelerating elements. Around the bars, the surface of which is completely or mostly exposed, the concrete should be chipped in such a way that the reprofiled lagging made of ATLAS FILER S mortar is at least 1.5 cm thick.

Mortar preparation

Pour the material from the bag into a vessel with a measured amount of clean water (proportions given in the Technical Data) and mix with a slow speed mixer until a uniform consistency is obtained. The compound is suitable for use after approx. 5 minutes and after re-stirring. It should be used within approx. 2 hours.

STAGE I

**Creation of a protective layer for the reinforcement**

Apply the finished mortar evenly with a brush to the cleaned reinforcement.

STAGE II

**Providing a contact layer on the surface to be repaired**

After protecting the reinforcement with ATLAS ADHER S mortar (after approx. 3 hours), you can proceed with the contact layer on the repaired concrete surface. Moisten the substrate to be repaired with water to a dull wet state. Porous and dry substrates should be saturated with water at least 1 day prior to application. ATLAS ADHER S mortar should be spread evenly on the substrate (and again on the reinforcement), rubbing it firmly with a brush or a painter's brush, extending slightly beyond the area to be repaired. Size the area to be repaired so that the next layer of ATLAS BETONER S (from ATLAS FILER S or ATLAS ENDER S mortars) can be applied over the contact layer using the wet-on-wet method. **If the contact layer dries out before the application of the next mortar, it must be reapplied.**

**Making a contact layer for ATLAS cement underlays**

ATLAS ADHER S mortar should be spread evenly on a substrate moistened with water, rubbing it in firmly with a brush or painter's brush. The size of the surface to be covered should be chosen so that layers of cementitious primer can be applied over the contact layer using the wet-on-wet method. In the **event that the contact layer dries before the application of the next mortar, it should be done again.**

## Consumption

On average, approximately 1.2 kg of dry matter per 1 m² is used.

## Packaging

25 kg paper bags.

## Safety information

Safety information is given on the product packaging and in the Safety Data Sheet, available at www.atlas.com.pl.

## Storage and transport

Information on storage and transport is given on the product packaging and in the Safety Data Sheet, available at www.atlas.com.pl.

The shelf life of the product (best before use) is 12 months from the production date on the packaging.

## Important additional information

According to EN 1504-10 (*Products and systems for the protection and repair of and repair of concrete structures. Definitions. Requirements. Quality control and conformity assessment. Part 10: Use of products and systems on site and quality control of works)* are the following repair methods:
3.1- manual application of repair mortar,
4.4 - application of the mortar layer,
7.1 - increase the thickness of the lagging by adding mortar,
7.2 - replacement of contaminated or carbonated concrete with mortar,
11.2 -protective coating of reinforcement.

The surface to be repaired, during and immediately after the work, should be protected from precipitation and excessive drying. The drying time of the contact layer depends on the degree of absorbency of the substrate and the surrounding heat and humidity conditions.

Clean the tools with clean water, immediately after use. Difficult to remove residues of the set mortar are washed off with ATLAS CEMENT AWAY.

The information contained in this Technical Data Sheet is intended as a basic guideline for the use of the product and does not relieve the user of the obligation to carry out the work in accordance with the rules of the art of construction and safety regulations. With the issue of this Technical Data Sheet, all previous ones are no longer valid.



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