

# weber.rep HKS

## High strength, thick applicable, sulphate and chlorine resistant structural repair mortar

Technical Data Sheet  
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### ■ Description

Cement based, high strength, polymer and fiber added, sulphate and chlorine resistant water impermeable structural repair mortar.

### ■ Referans standartları

Public Works Pos. No: 04.613/3B  
TS EN 1504-3/April 2008 - R4 class

### ■ Advantages

- High adherence and durability within a very short time after application
- Enables high resistant and water impermeable bevelling and surface levelling before waterproofing applications
- Surface repairing and levelling of high resistance concrete components
- Filling tie-rod gaps
- Thixotropic feature

### ■ Application areas

Used for bevelling, repairing, levelling purposes where sulphate and chloride resistance is required before waterproofing or topcoating applications on underground, overground, underwater floors of interiors and exteriors of all buildings; used together with weber.rep AD for repairing concrete and reinforcement damaged by abrasion of reinforcement bars.



### ■ Application substrates

Interior and exteriors;  
• Cement based renders,  
• Concrete,

Please consult us for all other application substrates.

### ■ Top coat options

- Waterproofings products, facade coatings and paints, ready to use renders and tilings can be applied as final coat on weber.rep HKS applied substrates.

### ■ Preparation of substrates

#### Concrete substrates:

- The substrate should be clean, dry and free from mold oils.
- Surface should be checked using hammer for low-adherence substrates. Weak parts should be removed and corners of the repairing area should remain open.
- Completely uncover the rusted reinforcement bars.
- The substrate should be dampened before the application; saturated with water in extremely hot and windy weathers.

#### Reinforcement bars:

- Remove the rust on bars using a steel brush and clean from dust.
- Cut the contact of reinforcement bars with concrete, apply 2 coats of **weber.rep AD** anti-corrosive bonding and primer using a brush.
- Next application should be made wet on wet when the material is still damp.

### ■ Application conditions

- Ambient and surface temperature between +5°C and +30°C.
- Avoid application under strong wind or direct sunlight.
- Should not be used on frozen or melting substrates, or substrates with the risk of frost within 24 hours.

### ■ Application

- Mix 25 kg bag of **weber.rep HKS** with average of 4,0 -4,5 litres of clean water.
- **weber.rep HKS** should be stirred to a homogenous consistency using a trowel or low-speed mixer. The mixture should be aged 2 minutes before application.

#### Substrate levelling:

- While using **weber.rep HKS** as levelling render, dampen the substrate prior to application and apply with trowel making a maximum 10 mm thick coat. Avoid adding water to hardening mortar.
- Use **weber.rep FN** structural repair and finishing mortar to get extra smooth surfaces.
- Dampen the substrate for 2-3 days after the application.

#### Bevel formation:

- **weber.rep HKS** at plastic consistency is bevelled on the joints of substrate wall at maximum of 40 mm radius using bevelling trowel.
- Waterproofing application can get started once the material finishes hardening.

## ■ Application tools

Hand mixer, steel trowel, scraper, finishing trowel, steel wire brush

## ■ Consumption

1.80 kg/m<sup>2</sup> (for 1 mm application thickness)

## ■ Points of attention

- Not applicable on gypsum, old painted substrates, aerated concrete, stone and stonewall.
- Dampen the substrate for 2-3 days after the application.

## ■ Technical specifications

PRODUCT	weber.rep HKS
Product structure	Powder
Colour	Grey
Mortar density	2.05±0.1 g/cm <sup>3</sup>
Mixing ratio	25 : 4.0-4.5 (weber.rep HKS : water)
Pot-life	Approx. 25 minutes
Application thickness	Minimum 5 mm Maximum 40 mm (for local repairs)
Time to wait between coats	3 hours
Service time	24 hours
Full curing time	28 days
<b>PERFORMANCE</b>	
Compressive strength	≥45 N/mm <sup>2</sup> (28 days)
Bonding strength	≥2 N/mm <sup>2</sup>
Soluble chloride ingredient	≤%0.05
Dangerous materials	NPD
Reaction to fire	AI

## ■ Storage

Packaging	25 kg kraft bag (64 bags per pallet, 1600 kg)
Palette size	107x107 cm
Colour	Grey
Shelf life	<ul style="list-style-type: none"><li>• 6 months from date of manufacture when stored unopened and undamaged in a dry, moisture-free environment.</li><li>• Packages should be kept tightly closed when not in use.</li></ul>

## ■ Safety precautions

- Use appropriate safety equipment (mask, gloves, glasses).
- Protect your eyes/face.
- Avoid direct contact with eyes and skin.
- In case of contact with eyes, rinse immediately with plenty of clean water and seek medical attention.
- Please read Safety Data Sheet (SDS) for further safety information.

## LEGAL DISCLAIMER

Saint-Gobain Weber Yapı Kimyasalları San. ve Tic. A.Ş. is not responsible for any errors arising from the use of product beyond its intended purpose or not complying the application procedures mentioned above.

The stated times apply for 20°C substrate and ambient temperature; increase at lower temperatures and decrease at higher temperatures.

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