



SP Top SR

- Universal Restoration Render HS -

WTA-compliant restoration render for damp and salt-loaded masonry with especially high sulphate resistance



Colour	Availability
	Quantity per pallet 42
	Size / Quantity 20 kg
	Type of container Paper bag
	Container code 20
	Art. no.
grey (inherent colour)	0416 ■

Application rate

Approx. 10.5 kg/m²/cm layer thickness

Apply to a large enough trial area to determine the precise amount required.



Range of use

- Plinth areas with and without waterproofing
- Substrates contaminated with high levels of damaging salts
- Repair, renovation and restoration of old, damp and salt-loaded masonry



Property profile

- High sulphate resistance and low active alkali content (SR/NA)
- High compressive strength
- Enables water vapour diffusion
- Single-layer application thickness up to 30 mm
- Machine workable
- Pore hydrophobic
- Fibre-reinforced
- Promotes drying

Characteristic data of the product

Porosity	>50% by volume
Layer thickness	Single layer 15 to 30 mm Two layers up to max. 60 mm
Bulk density	Approx. 1.15 kg/dm ³
Compressive strength class	CS II (1.5 - 5.0 N/mm ²)
Water requirement	Approx. 5.0 - 5.5 l/20 kg
Capillary water absorption w ₂₄	≥ 0.3 kg/m ²
Water vapour permeability μ	μ ≤ 15
Water penetration depth	After 24 h < 5 mm
Reaction to fire	Class A1
Maximum grain size	2 mm Aggregate as per DIN EN 13139
External surveillance	GG-Cert + WTA

The values stated represent typical characteristic data of the product and are not to be understood as binding product specifications.

Certificates

➤ [WTA certificate](#)

Possible system products

- [Kiesol \(1810\)](#)
- [SP Level \(0401\)](#)
- [SP Top Q2 \(0408\)](#)
- [Color SP \(3080\)](#)
- [SP Prep \(0400\)](#)
- [SP Prep rapid \(0406\)](#)
- [SP Fill Q3 \(0409\)](#)
- [Tex 6.5/100 \(0236\)](#)
- [Remmers waterproofing slurries](#)

Preparation

■ Substrate requirements

Clean, dust-free and capable of supporting a load.

■ Substrate preparation

Remove render, paint layers and coatings at least 80 cm above the damaged area.

Chase out friable joints to a depth of at least 2 cm.

Pre-wet absorbent substrates so that they are slightly damp.

Substrate: absorbent with low strength

Apply SP Prep or SP Prep rapid as a bonding layer in net form (covering area 50-70%) with max. 5 mm layer thickness.

Alternative: apply product as a scratch coat (contact layer).

Substrate: weakly absorbent

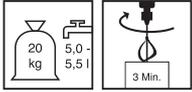
Apply SP Prep or SP Prep rapid at full coverage (100%) with max. 5 mm layer thickness.

Alternative: apply product as a scratch coat (contact layer).

Substrate: mineral waterproofing slurry

Apply SP Prep as a full-coverage bonding layer on the last slurry layer wet-on-wet.

Production of the mixture



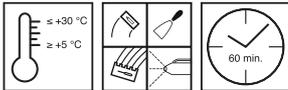
■ Mixing

Pour water into a clean container and add dry mortar.

Mix thoroughly for approximately 3 minutes until the proper consistency for working has been achieved.

If using a rendering machine, the corresponding water control value must be determined on site.

Directions



■ Conditions for use

Temperature of the material, air and substrate: from min. +5 °C to max. +30 °C.

Low temperatures increase, while high temperatures decrease the working and setting time.

■ Working time (+20 °C)

Approx. 60 minutes

One-layer

Apply product using a suitable tool or machine.

Two-layer

Roughen the first layer with a render comb.

Apply second layer once sufficiently dry.

Embed reinforcement fabric in the upper third of the render, with fabric widths overlapping by at least 10 cm.

Alternatively, apply the total layer thickness in 2 coats, fresh in fresh, with inserting reinforcement fabric (Tex 6.5/100).

Ensure that fabric sheets overlap by at least 10 cm.

Level off surface with a long float.

Finish the surface once set.

Prepare the surface for subsequent layers with a grated scraper after sufficient setting.

Pre-wet hydrophobic surfaces with detensioned water so that they are slightly damp before applying further render coats.

Tips on use

Once it has hardened, mortar must not be made workable again by adding either water or more wet mortar.

On critical substrates (highly uneven and/or fissured) we recommend incorporating the reinforcement fabric in the upper third of the restoration render.

Apply additional diagonal reinforcement to the edges of building openings.

Protect wet mortar surfaces against frost, rain and drying out too quickly for at least 4 days.

Hairline/shrinkage cracks are safe and are not cause for complaint as they do not impair the properties of the mortar.

To ensure that the renovation is successful, the relevant drying conditions according to WTA Code of Practice 2-9-20/D must be met.

Please contact Remmers Technical Service (phone +49 5432 83900) before applying with machine processing.

When processing in machines, the product-specific data, such as strength, air void content, etc. might change.

Notes

May contain traces of pyrite (iron sulphide).

Do not use on gypsum-based substrates.

The mixing water must be of drinking water quality.

Low chromate content in accordance with Directive 2003/53/EC.
Always set up a trial area/trial areas first.
The characteristic data of the product were calculated under laboratory conditions at 20°C and 65% relative humidity.
Deviations from applicable regulations must be agreed separately.
The relevant test certificates must be observed when planning and carrying out work.

Tools / Cleaning

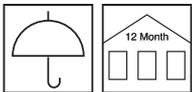
Mixer, trowel, smoothing trowel, sponge float



Clean tools with water while the material is still fresh.

Storage / Shelf life

If stored in an unopened container and in a dry place, the product will keep for approx. 12 months.



Safety data / Regulations

For further information on the safety aspects of transporting, storing and handling the product and on disposal and environmental matters, please see the current Safety Data Sheet.

Personal protective equipment

Respiratory protection with at least an A/P2 combination filter must be worn during spraying, together with safety goggles. Wear suitable protective gloves and clothing.

Disposal

Larger quantities of leftover product should be disposed of in the original containers in accordance with the applicable regulations. Completely empty, clean containers should be recycled. Do not dispose of together with household waste. Do not allow to enter the sewage system. Do not empty into drains.

Declaration of
conformity



Remmers GmbH
Bernhard-Remmers-Str. 13, D – 49624 Lönigen
UKCA Remmers (UK) Limited
Unit 4, Lloyds Court, Manor Royal Crawley, RH10 9QU

CE 11 / UKCA 21

GBI P50-2
EN 998-1: 2017-02
0416

Designed rendering/plastering mortar used on moist masonry walls containing water soluble salts

Reaction to fire:	class A1
Adhesion:	$\geq 0.08 \text{ N/mm}^2$ (fracture pattern B)
Water absorption:	$\geq 0.3 \text{ kg/m}^2$ after 24 h
Water vapour permeability:	$\mu \leq 15$
Thermal conductivity ($\lambda_{10, \text{dry}}$):	$\leq 0.27 \text{ W/(mK)}$ for P = 50%
Durability (against freeze-thaw):	Resistant, by use acc. TDS
Dangerous substances:	NPD

Please note that the data and information given above have been calculated as guidelines in the laboratory and from real-life experience and are therefore not binding as a basic principle.

This information is therefore of a general nature only and describes our products and how they are used and worked with. In this respect, it must be borne in mind that the varied and diverse nature of the

prevailing working conditions, materials used and construction sites encountered means that not every individual case can be covered. In this respect, we therefore recommend either conducting tests or liaising with us in the event of any doubt. Unless we have provided express written assurance of the products' specific suitability or characteristics in respect of a contractually stipulated intended use, any technical application-related advice or instruction will never

be binding, even though it is provided to the best of our knowledge. In all other respects, our general terms and conditions of sale and delivery shall apply.

When a new version of this Technical Data Sheet is published, it shall replace the previous version.