

## Fiber-reinforced quick-setting waterproof mortar for 3 mm to 50 mm thick layers



### Characteristics

INTRASIT® RZ1 55HSP is a quick-setting waterproof special mortar featuring advanced HSP (high-solids process) technology providing decisive advantages compared to conventional mortar systems.

- Capillary inactive due to its tight matrix providing a stable micropore structure
- Extremely low shrinkage, thus even thick layers can be applied without any cracks
- Improved resistance to chemicals and salt
- Extremely short setting time even at low temperatures
- Self-crystallization provides high adhesive tensile strength on dry and damp mineral substrates
- Consistency can be varied by amount of water added – from slurry-like to naturally stable and spreadable

### Use

INTRASIT® RZ1 55HSP is used for promoting adhesion and for sealing and leveling mineral substrates with 3 mm to 50 mm thick layers.

For the subsequently sealing and renovation of salt and humidity damaged undergrounds at the positive and negative sides.

### Areas of application:

- Part of the Quick & Easy repair system for permanent repair of damaged building structures
- For making waterproof adhesive coves
- For scratch coating on masonry and concrete
- As a quick-setting filling mortar (stop and lean-mixed mortar)

### Specifications

Presentation	paper bag
Container size	25 kg
Delivery quantity	30 cont./pallet
Color	light beige
Working temperature	at least +5 °C
Powder density	1.0 kg/l
Fresh mortar density	1.5 kg/l
Dry mortar density	1.3 kg/l
Workable time <sup>1)</sup>	approx. 20 minutes
Start of setting <sup>1)</sup>	40 minutes
Final setting <sup>1)</sup>	50 minutes
Bending tensile strength after 28 days <sup>1)</sup>	5.5 N/mm <sup>2</sup>
Compressive strength after 28 days <sup>1)</sup>	13 N/mm <sup>2</sup>
Adhesive tensile strength after 28 days <sup>1)</sup>	
on sand-lime brick (primed with <b>-Aquarol 10A</b> )	1.0 N/mm <sup>2</sup>
on concrete (primed with <b>-Aquarol 10A</b> )	1.1 N/mm <sup>2</sup>
Adhesive tensile strength after 28 days water submersion	no reduction of adhesive tensile strength
Water vapor permeability $\mu$	40
Water absorption w	< 0,1 kg/(m <sup>2</sup> · h <sup>0.5</sup> )
Storage	dry, 6 months

### Consumption

Quantity	approx. 1.25 kg/m <sup>2</sup> / mm layer thickness
Spreading rate	25 kg will give approx. 20 l of fresh mortar

<sup>1)</sup> Bei +20 °C und 60 % relativer Luftfeuchte.

## Preparation of the surface

The substrate must be clean, firm and sound. Remove any loose debris and dirt.

Remove brittle joint mortar.

Subsequently prime the entire area well with **INTRASIT® Aquarol 10A** applied with a wide wall brush or brush.

## Application

1. Gradually pour **INTRASIT® RZ1 55HSP** into clean water, using a drilling machine with mixing tool to stir the mixture well for about 1 minute. The processing consistency is attained during mixing. Observe the recommended amount of water.

Recommended mixing ratio for troweling:  
25 kg **INTRASIT® RZ1 55HSP** : 4.5 l water.  
Recommended mixing ratio for troweling:  
25 kg **INTRASIT® RZ1 55HSP** : 5 l water.

2. After the primer has begun to dry, apply **INTRASIT® RZ1 55HSP** as thickly as required for leveling.
3. For optimum adhesion it is recommended to apply **INTRASIT® RZ1 55HSP** as a slurry in the first session.  
Subsequently, the mortar can be applied wet on wet as thickly as necessary with a trowel or smoothing tool.
4. To improve adhesion to the following coating, the plaster may be horizontally roughened with a wide wall brush.  
Alternatively, a scratch coat made of **INTRASIT® RZ1 55HSP** can be applied after a drying time of approx. 45 minutes (with a 70 % cover).
5. After about 1 hour, **INTRASIT® RZ2 55HSP** climate plaster can be applied as thickly as required.
6. Clean tools with water immediately after use.

## hahne system products

INTRASIT® Aquarol 10A

INTRASIT® RZ2 55HSP

INTRASIT® horizontal damp-proof barriers

IMBERAL® building sealings

## Important notes

- Observe a working temperature of at least +5 °C.
- Protect the fresh plaster/rendering from drying out too quickly and from unfavorable weather. Avoid draft.
- Strong temperature and/or humidity fluctuations during the full hardening/drying of the render system can lead to shrinkage cracks.
- Low temperatures will slow down and high temperatures will accelerate the setting process.

## Ingredients

Standard cements, mineral aggregates, waterproofing agents, fiber fillers, HS pozzolana

## Safety provisions/recommendations

Contains cement and will cause alkaline reactions when it comes into contact with moisture or water.

Please see the safety data sheet for more information regarding transport safety, storage and handling.

## Disposal

The local waste removal regulations must be observed.

## Manufacturer

Heinrich Hahne GmbH & Co KG  
Heinrich-Hahne-Weg 11  
D-45711 Datteln

This information is based on extensive tests and practical experience. However, it cannot be applied to every type of application. If in doubt, we recommend that you test the product before using it. Due to continuous product improvement, this information is subject to change without notice. Our General Terms and Conditions apply.  
Version as of 6.2014