

## Product Information

## SITREN® Selfheal 455

## PRODUCT DESCRIPTION

SITREN® Selfheal 455 is a formulation in powder form based on natural microbes, nutrients and surface active ingredients.

## Typical Properties

Property	Unit	Value
<b>Appearance</b>		Free-flowing beige powder
<b>Bulk Density</b>	kg/m <sup>3</sup>	550-650
<b>Color</b>		Beige

The data represents typical values (no product specification)

## TYPICAL APPLICATIONS

SITREN® Selfheal 455 is a self-healing agent to be used for the manufacturing of ready-to-use concrete and precast concrete elements.

The concrete has to be in contact with moisture and/or water. Typical applications are groundwater retaining basement walls, water reservoirs, tunnels, bridges, pipes, dams etc.

## BENEFITS &amp; ADVANTAGES

- Repeated healing of cracks and pores
- Densified concrete and mortar matrices lead to higher compressive strength
- Lower water penetration – improved freeze-thaw resistance
- Saving cost and time for building repair and maintenance
- Elongation of the lifetime of a building reduces concrete waste and CO<sub>2</sub> emissions
- Smooth surface finish and excellent workability properties

## DOSAGE

1 % based on cement content

## HANDLING &amp; PROCESSING

SITREN® Selfheal 455 needs to be added to the concrete at the end of the mixing procedure. Mixing to be continued for at least 5 minutes. Manual dosage directly into the concrete mixer truck is also possible.

## PACKAGING

Pallet at 300 kg (20 x 15 kg)

## SHELF LIFE

SITREN® Selfheal 455 can be stored in original and closed container for minimum 12 months. It should be stored at a temperature between 10-30 °C. Access of moisture must be avoided.

## HAZARDOUS SUBSTANCE

Information concerning

- Classification and labelling according to regulations for transport and for dangerous substances
- Protective measures for storage and handling
- Measures in case of accidents and fire
- Toxicity and ecological effects

is given in our material safety data sheets.

## REGISTRATION LISTING SUMMARY

The relevant components of SITREN® Selfheal 455 are listed/registered or exempt in the following chemical inventories:

## Registration Listings

Registry	Status
<b>European Union (EINECS/ELINCS)</b>	Yes
<b>New Zealand (NZIoC)</b>	Yes
<b>United States of America (TSCA)</b>	Yes

#### Disclaimer

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