

Technical Information

SITREN® PSR 105

Product description

SITREN® PSR 105 is a powdered shrinkage reducing additive. The active components are organic alcohols on an inorganic carrier.

Physical properties

Appearance	white, free flowing powder
Tap density	500 – 700 g/l
Moisture content (Karl Fischer)	< 4 %

Figures are reference points and not subject of specification

Application

Multipurpose SITREN® PSR 105 effectively reduces the drying shrinkage in a wide variety of different binder systems. Main applications are:

- Self levelling underlayments (SLU)
- Flowable screeds
- Non-shrink grouts
- Repair mortars
- Powder paints

Properties/Benefits

SITREN® PSR 105 functions by reducing capillary tension of pore water, a primary cause for drying shrinkage. In addition SITREN® PSR 105 provides the following benefits:

- Superior reduction of drying as well as autogenous shrinkage
- Reduced potential for slab curling
- Fast curing – almost no impact on initial setting and early strength development of cementitious binder system
- Good workability properties
- Reduces the magnitude of capillary stresses and shrinkage strains
- Improved impermeability and durability

- Excellent long-term stability in dry mortar formulations
- Easy-to-use powder (not hygroscopic)

Dosage and Handling

Recommended dosage rates are 0.2 – 2.0 % referred to total amount of dry components. Suitable screening tests are recommended prior to use. For production of the drymix mortar SITREN® PSR 105 needs to be blended with the other dry ingredients by using standard mixing devices.

Registration status

The ingredients of SITREN® PSR 105 are listed on the following chemical inventories:

EINECS/ELINCS, TSCA, DSL, ENCS, AICS, TCCL, PICCS, IECSC, New Zealand, ECS

Further information is available on request.

Storage stability

SITREN® PSR 105 may be stored in closed bags under dry conditions and below 35 °C (95 F) for 12 months. It will remain safe to use for a longer period of time. However, product quality has to be verified by appropriate tests then.

Packaging

Pallet at 540 kg (36 x 15 kg paper bags)
Pallets should be stacked two high maximum.

Hazardous goods classification

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.

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