

SpEC Surface Retarder

WATER BASED CONCRETE SURFACE RETARDER

DESCRIPTION

SpEC Surface Retarder is a chemical treatment for concrete formwork systems, which reacts with the surface paste to retard the hydration of cement.

TYPICAL USES

SpEC Surface Retarder is used where an exposed aggregate finish is required for architectural effects or structural considerations, e.g. mechanically sound construction joints. Applications include:

- Precast concrete panels
- Kickers
- Thin and thick in situ concrete joint sections

ADVANTAGES

- Versatile - can be used over the shutter or on the exposed concrete face
- Cost effective - reduction in time and labour as compared to chiseling
- Does not require mould release agent
- Economical - high rates of application
- Compatible with a wide range of mould surfaces and types

TECHNICAL DATA

Appearance Clear semi-viscous liquid with slightly milky colour.

APPLICATION

SpEC Surface Retarder can be applied to metal, timber, plywood and plastic faced formwork, as well as on GRP and other resinous moulds.

SpEC Surface Retarder is applied by brush to the shutter face that will be in contact with concrete. The form surface should be free from oil, grease or other contaminants. When applying to new timber the first coat may be partially absorbed, in which case a second coat applied after 24 hours would be recommended.

SpEC Surface Retarder must be allowed to dry for 12-24 hours prior to placing concrete.

On exposed concrete surfaces, **SpEC Surface Retarder** is sprayed using a knapsack unit adjusted to produce a fine mist. It should be applied immediately after placing and finishing, while the concrete is still wet.

As soon as the concrete has hardened enough to be self-supporting, the mould should be stripped and the retarded concrete surface removed by wire brushing or water washing.

EQUIPMENT CLEANING

SpEC Surface Retarder may be removed from tools and equipment with water when wet.

PACKAGING AND YIELD

SpEC Surface Retarder is supplied in 5 litre tins, 20 litre pails and 200 litre drums with a coverage rate of 15 to 30m²/litre depending on type of formwork, porosity and method of application.

STORAGE AND SHELF LIFE

Store **SpEC Surface Retarder** in sealed containers under shade, preferably in a covered store. **SpEC Surface Retarder** has a shelf life of 6 months when stored under favourable conditions.

HEALTH AND SAFETY

Adequate precautions should be taken to prevent eye and prolonged skin contact. Use of gloves and goggles during application is recommended.

Skin contamination shall be washed immediately with soap and water. Eye contamination shall be washed immediately with copious amounts of clean water followed by medical attention.

All waste should be disposed of in accordance with local environmental regulations.

FLASH POINT

Not Applicable

Other SpEC Formwork Products:

- **SpECbuild MRA** - Mould Release Agent for Concrete.
 - **SpEC Clean Strike EF** - Environmentally Friendly Chemical Mould Release Agent.
 - **SpEC Grout Check** - Self Adhesive Shutter Sealing Strip.
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Issue 4: 10/2013

QA-054

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