November 2002

Sika® 2

Waterplug

Technical Data Sheet

DESCRIPTION

Sika 2 is a ready to use rapid setting leak stopping liquid which is mixed with ordinary portland cement to produce a paste for rapid leak sealing against high water pressure infiltration..

USES

* To seal against high water pressure infiltrations in concrete, rock or masonry.
* Allows **Sika 1** renders, gunite or shotcrete to be applied on structures exposed to running surface water.

ADVANTAGES

* Ready to use.
* Does not require diluting.
* Rapid setting time.
* Just add ordinary portland cement.
* Well proven.
* Does not contain chlorides.

Technical Data (typical)

Form: Liquid

Colour: Red

Setting times:

Dilution **Sika 2**	Setting time (secs)	**Sika 2** usage litres/kg
Neat Do not dilute	15 - 20	0.7

All above values are approximate.

SURFACE PREPARATION

At the location of infiltration, remove all loosely adhering particles, algal growth contaminants etc by localised scabbling, needle gunning etc to roughen and clean substrate.

Control leakage by diverting water to selected discharge points formed of short lengths of plastic or rubber tube set into the substrate. Pre-drill holes to accept tubes.

DOSAGE

1 **:** 2 by vol (**Sika 2 :** Ordinary Portland Cement).

MIXING

Place **Sika 2** in a mixing container then add the O.P.C. Stir the mix together quickly to form a paste.

APPLICATION

* After pre-drilling holes for tubes, bond tubes into holes using either **Sika 2** or **Sika 4a** paste.
* For sealing large areas of infiltration, first seal off using either **Sika 2** or **Sika 4a** cement paste while allowing water to infiltrate through substrate (see separate data sheet).
* Gradually seal off water by working towards the discharge points.
* When the water flow has been controlled through the discharge points apply the **Sika 1** structural waterproofing render or gunite layers upto the discharge tubes.
  Note: Do not apply final layer of render or gunite until discharge tubes have been removed and water infiltration has stopped.
* Allow render or gunite coats to set for a minimum of 24 hours.
* Remove discharge tubes from holes.
* Mould the **Sika 2** paste by gloved hand into a plug and place immediately into the discharge hole, pressing firmly until the mix has set (15 - 20 secs).
* Apply final coats of render or gunite over the **Sika 2** plugs at a minimum thickness of 10.0 mm.

IMPORTANT CONSIDERATIONS

* Where high water pressures are experienced, the prepared area around the discharge tubes may need to be increased to provide a larger surface area for bonding the **Sika 2** paste.
* Setting times will be affected by ambient temperature, water and **Sika 2** temperature, supplier and age of ordinary portland cement. Trials are recommended varying the **Sika 2** dosage, temperature and type of ordinary portland cement until the required performance is achieved.
* Use only fresh ordinary portland cement.
* Wear suitable protective clothing, gloves and eye protection.
* **Sika 2** plugs must always be overcoated with a final waterproof layer.
* Do not dilute.
* Best results are usually achieved by applying with gloved hand.

CLEANING

Application and mixing tools should be cleaned with water immediately after use. Hardened material must be removed mechanically.

PACKAGING

Refer to latest price list.

MATERIAL CONSUMPTION

1 kg of portland cement **:** 0.7 litres of **Sika 2**.
Excluding allowances for loss, wastage and surface profile.

STORAGE AND SHELF LIFE

Minimum 1 year in unopened original sealed containers stored in dry warehouse conditions (+5°C - +30°C). Protect from frost.

Please consult our Technical Sales Department for further information

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