



Sovereign Hey'di K11

A salt resistant cementitious tanking compound for the protection of structures against water from the ground that may be subject to hydrostatic pressure.



Product Code

Grey: **30607678**

White: **30126551**



Description

Sovereign Hey'di K11 is a salt resistant cementitious tanking compound for the protection of structures against water from the ground and which maybe potentially subject to hydrostatic pressure. K11 can be used on the external side of buildings below ground level where positive pressure exists, or on the internal (negative) side, without the need to build supporting walls.

The Sovereign Hey'di tanking system is fully covered by British Board of Agrèment Certificate 91/2608.

Form Supplied: Dry Powder

Pack Size: 25kg

Colour Range: Grey and White

Contains: Blend of cement and additives

Properties

Once cured K11 is impervious to water and the system has been independently tested to withstand greater than 10 bars of pressure on the negative side (over 100 metres head of water) with a coating thickness of 4 mm in two coats.

Individual specifications are available for each contract using the K11 system. This service is **FREE OF CHARGE** and a **10-year Tanking Treatment Guarantee** is available for contracts carried out to **Best Advice** from the the relevant Technical Area Sales Manager.



USAGE/PREPARATION

On new construction mortar joints should be fully filled off and flush pointed flat with the wall surface.

Existing structures usually require mechanical preparation to remove existing coatings or heavy salt deposits. This is best done by the use of a scabber or needle gun.

K11 can be applied direct to the substrate, but in our experience applying a modified rendercoat+ provides an excellent background, as follows:

1. Prepare thoroughly to receive a modified rendercoat and then saturate the substrate.
2. Apply Hey'di Antisulphate diluted 1:1 with water and leave overnight*.
3. Brush apply a bonding coat consisting of 1 part water, 1 part Hey'di Bonding Agent mixed with cement to a yoghurt consistency.
4. Whilst the bonding coat is still tacky apply a 4:1 sand cement render, gauged with 4 parts water, 1 part Hey'di Bonding Agent. Use a wooden float finish and allow to cure overnight.
5. Apply neat Hey'di Antisulphate and allow to soak in*.
6. Thoroughly dampen down the surface with a 9 parts water 1 part Hey'di Bonding Agent solution.
7. Add K11 powder to gauging liquid consisting of Hey'di Bonding Agent diluted 2 parts Hey'di Bonding Agent to 1 part water and, using an electric drill and plasterers paddle, mix to a thick creamy consistency. Thereafter keeping the render damp, apply first "coating" of K11 Grey slurry using a block brush at approximately 2 mm thickness.
8. Where a solid floor exists the K11 should be overlapped 200 mm and a 25 mm fillet of Barrier Mortar, gauged with water, trowelled to floor to wall juncture.
9. When it is possible to do so without pulling off the first coat; apply second coating at right angles to the first and lap over the Barrier Mortar fillet and onto the floor, where applicable.

+ Where mechanical preparation is difficult or impractical then stainless steel metal lath may be fixed to the masonry to support the render before tanking.

* Not required on new build.

Sovereign Hey'di K11 GREY must always be used as the first coat. We would also recommend that the Grey be used for the second coat. However, where the tanking is to be left as the finish then K11 White may be used as the SECOND coat.

RUNNING WATER

Where running water is penetrating through masonry this must be stopped before tanking. This can be done using Sovereign Hey'Di Powder X.

Using a gloved hand scoop some powder out of the bucket. Press the powder over the point of water ingress and hold down firmly for several seconds. The Powder X will cure almost immediately and plug the leak and the tanking can then commence as per the above. However if new leaks spring up elsewhere then stop and contact the technical sales area manager for advice.

If Powder X is to be used along a wall/floor joint or overhead then it may be easier to make a thick slurry. Pour about a cupful of water into a clean bucket. With a gloved hand add 2 - 3 handfuls of powder, stir quickly and apply immediately.

FINISHING

Basements and cellars present ventilation problems and a ventilation specialist should be consulted to ensure that airflow is adequate for the intended use of the area.

To reduce the possibility of condensation then the application of Sovereign Renderlite Renovating Plaster is advised. Renderlite is more thermally efficient than traditional sand cement render and gypsum plaster. The increased insulation reduces the potential for condensation.

Renderlite should be applied on to a wet bonding coat as described in 3 above.

SPECIAL SYSTEM

Where hydrostatic water pressure is permeating through the substrate over a wide area then the use of Sovereign Hey'di Special System may be required. Advice should be sought from the technical department.

INSTRUCTIONAL VIDEO

Sovereign produce a CD ROM that contains the entire Sovereign product range literature and includes video sequences showing the use of both the K11 and Special System.

OTHER USES

Sovereign Hey'di K11 can also be used in many other waterproofing applications such as: -

1. Water retaining structures such as bunds, fishponds and water tanks.

Note: K11 is suitable for use with potable water.

Specifications available on request.

2. Salt contaminated walls: K11 will prevent the movement of hygroscopic salts to the surface, i.e. chimneybreasts, or where old livestock buildings are to be converted to habitable accommodation.
3. Inspections pits and lift shafts.
4. Swimming pools: Used to waterproof the shell prior to tiling. Specifications available on request.
5. In lieu of a DPC: Where it is impractical to drill and inject i.e. random, thick or party walls. A single coat of K11 Grey applied to a minimum of 1.5 metres above ground level will suffice. (See specification Tech H8).

RESTRICTIONS

Do not attempt any part of the tanking process if temperatures are below 5°C.

Protect newly applied K11 from rain, wind, strong sunlight and frost for a minimum of 24 hours.

Ensure clients are advised that the membrane must not be punctured and to contact the Technical Department if this becomes necessary.

Only mix sufficient K11 that can be used in 20 minutes.

Never apply render/Renderlite onto a dry bonding coat. This will act as a debonding layer and cause failure. If the bonding coat dries then reapply.

K11 must always be applied to a damp substrate as an insufficiently high moisture content may lead to failure.

FIXINGS AND SERVICES

Where services must pass through the tanking e.g. cables and pipes then the following procedure should be carried out.

Ensure that the hole for the pipe work etc is as tight as possible. If necessary fill off with Sovereign Hey'di

Rapid Mortar. Take the K11 coating up to the intrusion and when cured use Sovereign Prostick 2000 to form a minimum 10 mm collar around the base, ensuring that both the K11 and pipe work etc, are well covered.

Any fixing point should be drilled to twice the width and 1½ times the length required. Fill the drill hole with either Sovereign Prostick 2000 or Hey'di Rapid Mortar and push in the fixing plug, and allow to cure.

DRAINAGE

Incorporating drainage should be considered an integral part of the system; being positioned at the lowest point of the structure for maximum efficiency, thus reducing the potential for hydrostatic pressure in the event the system becomes damaged in the future.



Shelf Life: 12 months when stored unopened and above ground in cool dry conditions.

HEALTH AND SAFETY

- ! Contains: Cement, portland, chemicals (Chromium VI reduced), Flue dust, Cement Portland
- ! Can cause skin irritation and serious eye damage.
- ! Wear protective gloves/protective clothing and eye/face protection
- ! IF IN EYES: Rinse cautiously with water for several minutes.
- ! Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice.
- ! IF ON SKIN: Wash with plenty of water and soap. If skin irritation or rash occurs: Seek medical advice.
- ! Keep out of reach of children.



Health & safety information
available on request



Important Disclaimer

The information given is in good faith based on experience and usage, however all recommendations are made without warranty or guarantee, since the conditions of use are beyond our control. All goods are sold in accordance with our Conditions of Sale, copies of which are available on request. Customers are advised that product, techniques and codes of practice are under constant review and changes occur without notice. Please ensure you have the latest updated information.



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