New Guard Coatings Group

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PRODUCT DATA SHEET

Feb® Febtank Plug

A rapid-setting water-stop repair compound

PRODUCT DESCRIPTION

Feb® Febtank Plug, when mixed with clean water, provides a ready-to-use ultra-rapid setting durable plugging compound for active water leaks in concrete and masonry. The material expands as it cures to form a watertight seal with similar characteristics to concrete. Use on holes, joints and cracks. Sets both above and below the water level.

USES

Feb® Febtank Plug is used to stop active water or seepage under pressure through joints, cracks and holes in concrete or masonry, where a normal mortar would be washed away and resin mortars would not bond. Areas of use include:

- As a seal for construction joints or floor joints prior to basement tanking with FEBTANK SUPER.
- For instant sewer connections.
- For sealing cracks and construction joints in reservoirs and other water retaining structures.
- For rapid anchoring of bolts, conduits, pipes, railings, sanitary equipment, etc.
- Joint filling, pointing between concrete segments in concrete and brick tunnels, sewage systems, pipes and mines.

CHARACTERISTICS / ADVANTAGES

- Ultra-rapid set, instant plugging of leaks.
- Requires the addition of water only.
- Expands as it sets, ensuring a permanent watertight seal.
- Similar characteristics to, and compatible with, concrete.
- Chloride-free.
- Does not promote corrosion of the reinforcement.

PRODUCT INFORMATION

Packaging	5kg tub
Appearance / Colour	Grey powder
Shelf Life	9 months from date of manufacture when stored as directed.
Storage Conditions	All materials should be stored under cover, clear of the ground and stacked not more than 4 pails high. Protect the materials from all sources of moisture and frost.
Density	Dry - 1.2 g/cm³ at 20°C Wet - 2.14g/cm³

Maximum Grain Size	0.8mm
Soluble Chloride Ion Content	<0.1%w/w

TECHNICAL INFORMATION

Shrinkage	Minimal (shrinkage compensated grade)

APPLICATION INFORMATION

Consumption	1kg of powder will fill approximately 585cm³ or a joint 20mm x 20mm x 1.45m.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Preferably, cracks or holes should be cut out to a minimum width and depth of 20mm, cutting the sides as square as practicable. Undercut if possible. Avoid leaving a V-section. Do not feather-edge. Flush out the hole or crack with water at high pressure in order to remove all loose particles and dust. All surfaces must be dampened with clean water immediately prior to application of Feb® Febtank Plug.

MIXING

Mixing should only be done by hand.

APPLICATION

For plugging active leaks:
Mix, in a suitable container, only sufficient material (0.5kg) that can be placed by hand in one application. Mix quickly and well to a stiff consistency (approximately 1 part water to 4 parts Feb® Febtank Plug by volume). Do not overmix. Hold the material in a gloved hand until slight warmth is felt or setting occurs then press Feb® Febtank Plug mortar firmly into the opening; exert full pressure, without moving the hand or trowel. Do not remove the hand too quickly. If the opening is too big to be closed with 0.5kg of Feb® Febtank Plug, work from the sides to the middle, following the above procedure. After stopping the active water, trim off the patch so that it is uniformly level with the surrounding wall surfaces.
For sealing cracks at the junction of floor and wall in an existing construction:
Cut out the crack at least 20mm wide and deep, cutting back into the wall slightly. Flush away all cuttings and dirt. Force Feb® Febtank Plug mortar into the prepared crack and smooth it out. Form a 45° cove or fillet at the junction of floor and wall of approximately 35-45 mm.
For sealing the junction between a concrete floor and a masonry wall in new construction:
Form a rebate throughout the basement and sub-basement rooms and pits by inserting a strip of wood 20mm x 20mm at the junction of vertical masonry walls and the concrete floor slabs. The top edge of the strip should be laid true and level with finished concrete floors and left in place until fresh concrete has cured. Remove the wood strip previously inserted.
Wash the groove with clean water from a hose pipe to remove debris. Fill the groove with Feb® Febtank Plug mortar mixed to a stiff consistency; force or tamp it into place with a round-nosed tool to form a cove between the floor and wall. Keep the Feb® Febtank Plug mortar damp for 15 minutes if no active water is present.
To repair leaking mortar joints and cracks in masonry walls, or cracks in concrete walls:
Cut out the defective mortar joints or cracks to a minimum width and depth of 20mm - undercut if possible. Force Feb® Febtank Plug into the crack and keep it damp for at least 15 minutes.
For holes, blisters, patches, honeycomb and other construction faults in concrete walls:
Remove all tie wires, wood or steel separators by cutting back the concrete from the surface to a depth of 25mm. Mix Feb® Febtank Plug with water to the consistency of stiff mortar and fill all holes, blisters, patches, honeycombing and other construction faults flush with the surrounding surfaces. Scratch the finish for later applications.
For anchoring bolts or metal posts in concrete or masonry:
Drill a hole deep enough to secure the bolt or post properly and large enough so there is at least 10mm on all sides of it. Fill the hole with Feb® Febtank Plug mortar and tamp it down so that the entire hole is full. Immediately centre the bolt or post over the hole and force it into the Feb® Febtank Plug mortar. Tamp the Feb® Febtank Plug mortar firmly around the bolt or post and keep moist for 15 minutes.

CURING TREATMENT

Final setting time, 2 – 4 minutes. Once the placed Feb® Febtank Plug mortar has stiffened sufficiently, dampen with clean water and maintain in a damp condition for a minimum of 15 minutes.

LIMITATIONS

- Always mix with clean fresh water.
- Setting times/strengths are indicative and set may be accelerated at higher temperatures or retarded at lower temperatures.
- Never exceed the quantity of water stated. This will dramatically reduce strength and may cause failure.
- Do not use on painted surfaces. Remove paint first.
- Do not use this product below 5°C.
- When used externally, do not apply when rain is im-

minent and protect from rain for at least 4 hours.
- As the manufacturer cannot know all the uses their products may be put to, it is the user's responsibility to determine suitability for use. If in doubt, contact Technical Services Department.

VALUE BASE

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product’s suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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