

# PILLAR & BEAMS INSTALLATION SYSTEM

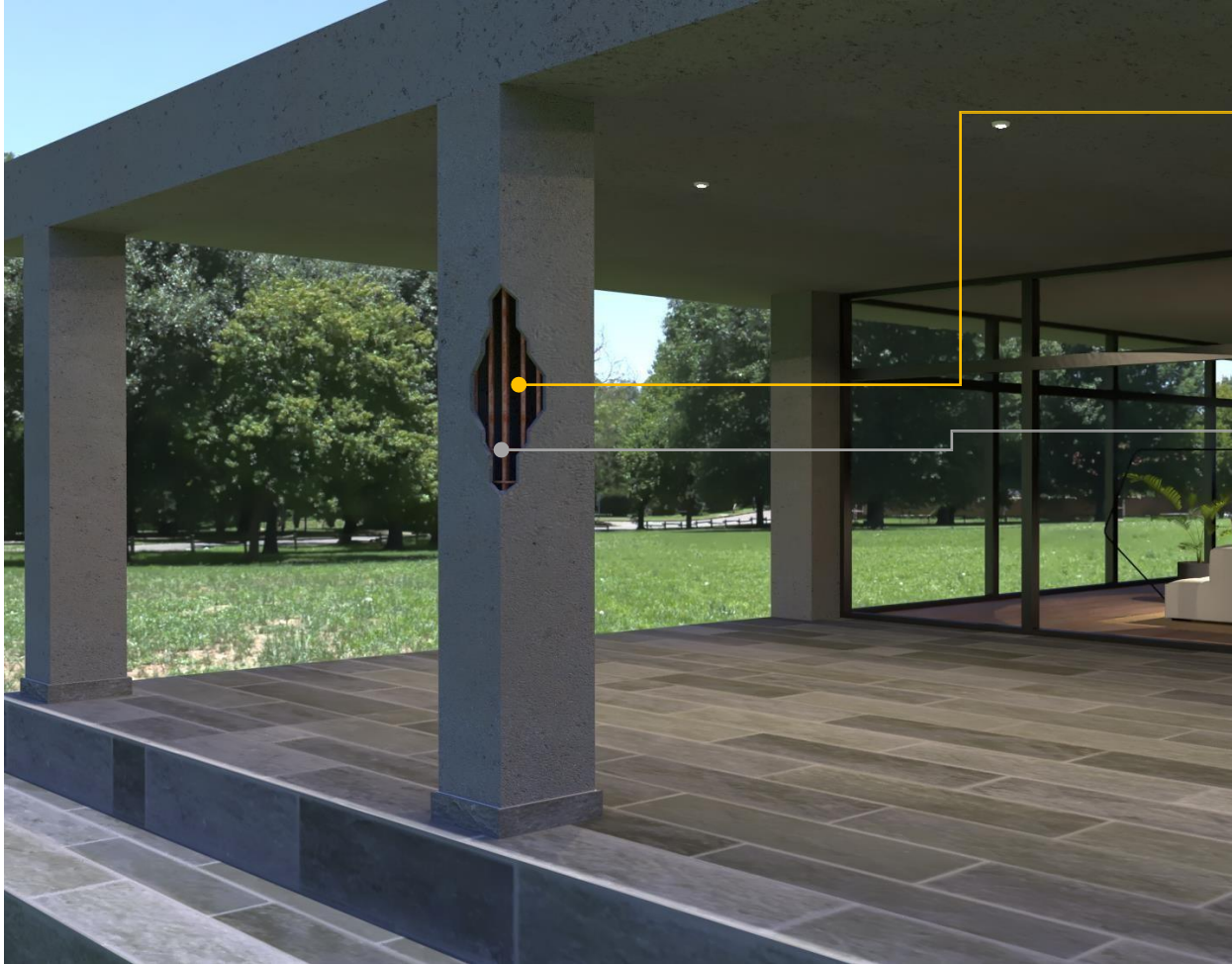
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# PILLAR & BEAMS INSTALLATION SYSTEM



Priming of iron reinforcement with **VIODOM RUSTPROOF SL-47** and coating of concrete before applying repairing materials.



**THRAKON R3's WRM 520** is a fast-setting (20 min), **THRAKON R4's WRM 525** is a fiber-reinforced, one-component, cement-based repair material for concrete.



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## Installation process

### • Substrate preparation

Remove the damaged parts of the concrete until you reach a healthy substrate. Completely expose the metal reinforcement at the points where the repair will be made, so that it can be coated with VIODOM's RUSTPROOF SL-47 primer. Then clean the reinforcement from rust using a mortar, brush, sandblasting or a needle gun, depending on the size and extent of the corrosion. If there are smooth concrete surfaces and the application of repair materials is to follow, they must be roughened sufficiently with a chisel. Finally, wash and clean the surfaces (reinforcement and concrete) with pressurized water. The concrete surfaces on which VIODOM RUSTPROOF SL-47 product will be applied must be wetted fully and the excess water removed. The application of the primer material is done with the help of a stiff brush and with the aim of completely covering the iron reinforcement and the concrete surfaces that will come into contact with the repair materials, at a thickness of 1-2 mm. During the application, care must be taken to remove the generated air, and not to trap air bubbles on the surfaces of the concrete and reinforcement. The primed surfaces must be protected from rapid evaporation, especially during the summer months, to avoid cracking, by lightly wetting or covering with a damp cloth. The material must be applied when the external temperature is between +5°C and +35°C, and not in the rain.

## Method of Installation

In a clean box, add 5.5 - 6.7 liters of clean water and gradually empty the contents of the bag with the fast-setting WRM 520 R3 of THRAKON or WRM 525 R4 of THRAKON, stirring continuously, so that a homogeneous mortar mass is obtained. Let the mixture mature for 3 min and stir again for a while. Also, during the application, you must stir gradually. After preparing the mixture, it is prohibited to add additional water to correct the workability of the mortar. This will lead to a reduction in its strength and an increase in its shrinkage. Make sure to prepare as much mixture as you can use, depending on your time, while any excess and set should be thrown away and made new. The application of the material should not exceed 1 cm. per layer. If we need to go to a thickness greater than 1cm, then we apply and wait until the material dries to apply another layer on top of it. This takes about 30-60 minutes depending on the weather conditions. When the temperature is at high levels, the strengths develop faster, while the workability of the material also decreases.

At low temperatures, strength development is delayed. It is recommended to keep the surface moist and avoid rapid evaporation, especially when the temperature is high or when the application is done under strong sunlight, to prevent cracks from forming.