

TECHNICAL BULLETIN TB222

INSTALLATION OF RAUPEX[®] PLUMBING IN BURIED APPLICATIONS

Product: RAUPEX Plumbing Pipes

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It is not necessary to continuously sleeve RAUPEX plumbing pipes which are buried below or within a concrete slab. REHAU considers continuous sleeving to be unnecessary. However, continuous sleeving of RAUPEX plumbing pipes buried below or within a concrete slab is not prohibited. In such cases the following precaution must be followed:

When PEX plumbing pipes are continuously sleeved below or above a slab, the space between the PEX pipe and the sleeving must never be filled with any liquid chemical, including pesticides or termiticides (see Figure 1). The annular gap between the pipes at the ends should be filled with silicone or polyurethane expanding foam to help prevent pathways for pests and the mistaken application of harmful chemicals into the space between the PEX pipe and the sleeving. Use only sealants that are compatible with PEX pipes.

Application of pesticides or termiticides between PEX pipe and sleeving is strictly prohibited.

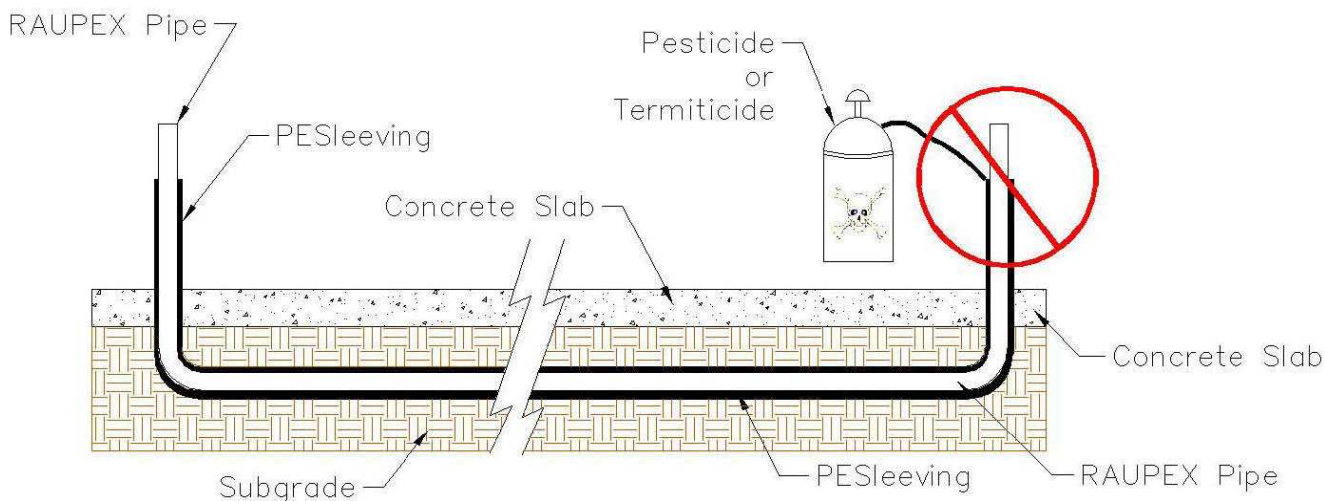


Figure 1: PEX Pipe sleeved under a slab.

WARNING! Do not fill sleeving or space around RAUPEX pipe with chemicals such as pesticides or termiticides!

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REHAU's RAUPEX cross-linked polyethylene (PEXa) pipe for hot- and cold-water distribution (plumbing) is recommended for installation directly in or below concrete slabs. This is especially useful in slab-on-grade construction. REHAU does not require that RAUPEX pipes encased within concrete slabs be sleeved.

REHAU does recommend the use of either PE Protection Sleeve (shown) or PVC Bend Guides at all slab penetrations to protect RAUPEX pipe from abrasion where it passes through the concrete. (see Figure 2 for details).

In such installations, the gap between the pipes at the ends should be filled with silicone or polyurethane expanding foam to help prevent pathways for pests and the mistaken application of harmful chemicals in the space between the PEX pipe and the sleeving. Use only sealants that are compatible with PEX pipes. As with continuously sleeved pipes, the application of pesticides or termiticides between PEX pipe and sleeving is strictly prohibited.

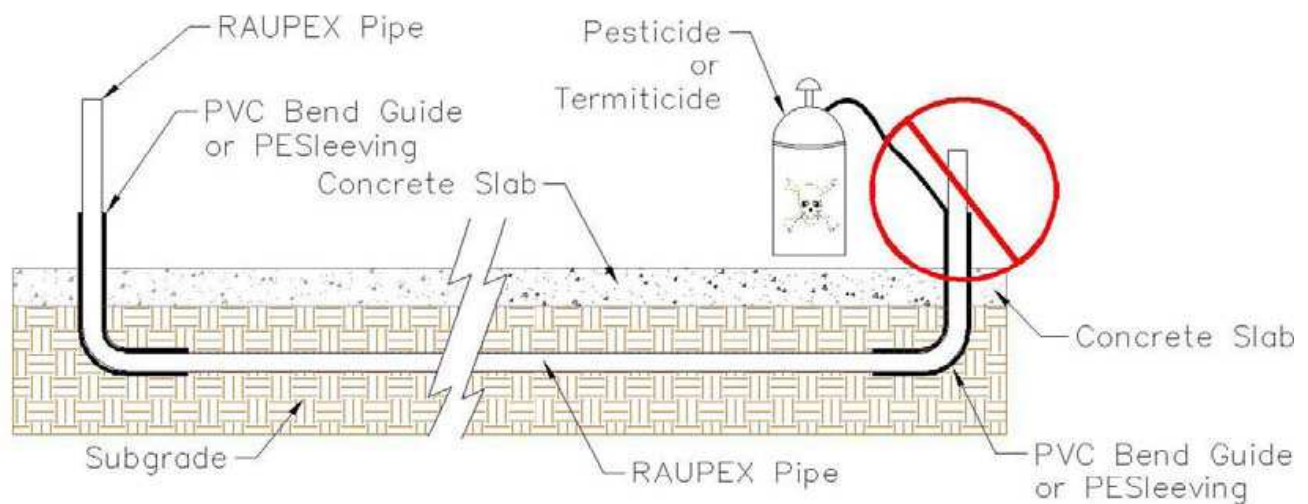


Figure 2: Recommended installation of RAUPEX pipe under a slab.

Note: RAUPEX pipes for potable water applications shall not be installed in contaminated soils or immersed in liquid chemicals. Do not directly spray on or allow organic (petroleum-based) chemicals such as, petroleum distillates, termiticides or pesticides to come into contact with RAUPEX pipes, otherwise permeation of certain harmful chemicals may occur through the pipe wall.