



Building Information

BURNABY BUILDING DEPARTMENT

EPOXY COATING PROCEDURES FOR DOMESTIC WATER SYSTEM UPGRADING

The purpose of this brochure is to explain the City of Burnaby's requirements for the epoxy coating of existing water piping.

"This information is provided for convenience only and is not in substitution of applicable City Bylaws or Provincial or Federal Codes or laws. You must satisfy yourself that any existing or proposed construction or other works complies with such Bylaws, Codes or other laws."

Epoxy coating systems are being utilized in an effort to extend the service life of aging water piping systems within buildings. Where epoxy coating systems are being used, building owners must satisfy themselves as to the quality of the epoxy products and the application procedures. It is also recommended that professional engineering services be obtaining to provide installation specifications and field monitoring of the epoxy coating installation. All epoxy products must meet National Sanitation Foundation (NSF) standards.

The epoxy coating process is considered a maintenance procedure and therefore does not require a plumbing permit. However, the process may involve the replacement of some portions of the piping system and/or various shut off-valves, in which case a plumbing permit is required. All installations of replacement piping must comply with the requirements of the Burnaby Plumbing Bylaw.

Where the installation of epoxy coating systems involves the replacement of piping and/or shut off-valves, the following requirements apply:

1. If replacement piping penetrates a fire rated wall or ceiling assembly, certified fire stopping is required for the specific application. A Building permit and Plumbing permit is also required.
2. In situations where shower or combination shower and bathtub filler vales are replaced, the replacement valves must be pressure balanced or thermostatic mixing valves that conform to CSA B125.

3. All shut-off valves are to be tagged in order to note that the system has been lined with epoxy coating and future repairs or alterations to the piping system must be made with mechanical joint pipe fittings.
4. If the project also includes replacement of existing water piping then design drawings sealed by a professional engineer must be submitted with the plumbing permit application.

■ If you have any further questions, please contact the Building Department at 604-294-7130.

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