

Scott System

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Foam Formwork Application



Scott System Foam Formwork Application Guide

For use by Contractors as an application guide to Install Foam Formwork.

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READ BEFORE USE

The following recommendations cover the basic use of Scott System foam formwork in the field. We recommend the following items to ensure positive results.

1. Each shipment must be checked BEFORE unloading at jobsite. Note any damage to crate, pallets and products on the freight line's delivery ticket. No claims for damage can be made without a signed and documented delivery ticket.
2. Protect foam formwork from exposure to UV rays and/or freezing temperatures. Indoor storage is recommended. Store and use foam formwork at temperatures between 40 degrees F and 140 degrees F.
3. A release agent must be applied to formwork prior to use with concrete. Use only approved release agent, Scott Lease 440, or Cresset 880. No equals are accepted.
4. Thoroughly vibrate concrete to achieve consolidation and minimize voids. Internally vibrate into previous lift to avoid lift lines. Avoid vibrator contact with the foam formwork.
5. Remove/strip formwork from concrete within 24 hours after concrete placement if acceptable. The form can be replaced back onto the wall for the concrete curing specifications, but the initial strip needs to be within 24 hours.
6. Proper cleaning and storage of formwork is required to obtain acceptable results.
7. Materials used to fabricate formwork comply with toxic characteristic leaching procedure (TCLP) test and may be disposed of in landfills. Expanded polystyrene (EPS) foam can be recycled, please contact foam manufacturers or recycling centers in your area for additional information.

Disclaimer: Scott System is a manufacturer providing a component to be used, maintained, and installed by the Purchaser. Scott System has no control over the use of the product when in the care and custody of the Purchaser. Scott System will not be liable and/or responsible for any claims, delays, back charges, damages or withheld payments because of utilizing our product.

Limited Warranty: Scott System warrants its products against defects in materials (materials to be of consistent quality within manufacturing specifications) and workmanship and will perform as represented, provided that the concrete construction methods are consistent with the manufacturer's recommendations. Manufacturer's obligation under this warranty shall be limited to replacing or refunding the purchase price of that material supplied.

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Section 1: General Information

Expanded polystyrene (EPS) foam formwork is available in different finishes for different applications such as uncoated, polyurethane, or a composite. Ideal applications are structural or decorative cast-in-place concrete. Typically, plywood is laminated to the back for attachment to the Contractor's formwork.

Section 2: Attaching to Formwork

Foam formwork is fabricated to be ready for use in the field. Foam formwork shall be thoroughly and securely attached using screws through Contractor's formwork and into the plywood perimeter surrounding the foam.

Contractor shall seal joints between formwork and adjacent formwork and accessories to prevent concrete paste from bleeding.

In the event the formwork is damaged, the Contractor shall consult with the manufacturer.

Section 3: Form Release and Stripping Formwork

It is not recommended to use uncoated foam formwork more than once. Polyurethane or composite coated foam may be used multiple times depending on the specific geometry. The general procedure is as follows:

1. All foam formwork, coated or uncoated, should be sprayed with a Form Release before each use and within the same day that concrete is placed. A form release sprayer should be used and the spraying angle varied to insure complete coverage of all pattern features.
2. Forms should be stripped preferably within 24 hours of concrete placement. However, do not remove forms or bracing until concrete has gained sufficient strength to carry its own weight and imposed loads specified.
3. Separate the form from the concrete slightly. Hold in this position for several minutes to allow the induced stress in the form to diminish. Continue to separate the formwork from the concrete in stages until final separation.
4. Loosen forms carefully. Do not wedge pry bars, hammers, or tools against finished concrete surfaces scheduled for exposure to view.
5. Store removed forms in a manner that the liner surfaces to be in contact with fresh concrete will not be damaged. Discard damaged forms.
6. Single-use forms may be discarded after stripping. Multi-use forms needs to be cleaned with a mild detergent and scrub brush.

Section 4: Care and Storage of Foam Formwork

Care and maintenance of the formwork is required to ensure that the formwork remains in good condition throughout the duration of the project. The Contractor shall use all means at his disposal to protect the formwork from damage due to construction activity, including erection, pouring, curing, stripping, movement, and storage on the site. The formwork shall be cleaned and maintained per the manufacturer's instructions.

Clean surfaces and formed cavities of debris before use and after removal from concrete before reinstallation on subsequent uses. Formwork should be cleaned with approved release agent when the liner begins to resist stripping. Flush with water or use compressed air to remove foreign matter and re-release formwork after cleaning.

All foam formwork is sensitive to the effects of the sunlight, ultraviolet rays and extreme weather conditions. Foam should never be stored outside in direct or indirect sunlight. When not in use or being cleaned, foam should be stored either indoors or under black polyethylene. Ultraviolet rays may cause the form to become brittle or may cause discoloration, which could be translated to concrete surfaces. Foam should never be exposed to temperatures in excess of 140° F (60° C). Excessive temperatures could cause permanent deformation.

Thank you for your purchase of Scott System Foam Formwork.

Please call us at 518-383-0500 for any assistance with our products.