

03105

CONCRETE FORM ACCESSORIES

This guide specification has been prepared by Dayton Superior Corporation to assist design professionals in the preparation of a specification section covering form release agents and form ties for cast-in-place and precast concrete.

This specification may be used as the basis for developing either a project specification or an office master specification. Since it has been prepared according to the principles established in the Manual of Practice published by The Construction Specifications Institute (CSI), it may be used in conjunction with most commercially available master specifications systems with minor editing.

The following should be noted in using this guide specification:

Editing notes to assist users are included within bordered boxes. Delete these notes prior to final printing.

Optional text requiring a selection by the user is enclosed within brackets, e.g.: Section [01330][_____]."

Items requiring user input are enclosed within brackets, e.g.: Section [____-_____]."

Optional paragraphs are separated by an "OR" statement, e.g.:

**** OR ****

Metric equivalents to inch-pound units follow the inch-pound units and are contained within parenthesis. Metric measurements are rationalized units based on the SI system of measurement. Delete either the inch-pound or metric units of measure depending on project requirements; do not include both units in a project specification, as conflicting requirements could result.

This guide specification is available in both hard copy and a variety of electronic formats to suit most popular word processing programs and operating platforms. Please contact Dayton Superior Corporation at (800) 745-3707 for additional copies or for information on available electronic formats.

1 GENERAL

1.1 SUMMARY

Edit the following to suit project requirements.

A. Section Includes:

1. Form release agents for [cast-in-place] [precast] concrete surfaces.
2. Form ties.

Edit the following paragraphs to suit project requirements; list only those sections specifically applicable to the work of this section.

B. Related Sections:

1. Section [03110 – Structural Cast-In-Place Concrete Forms] [03120 – Architectural Cast-In-Place Concrete Forms] [____ - _____]: Concrete forms.

2. Section [03300 – Cast–In–Place Concrete] [____ – ____]: Concrete elements.
3. Section [03410 – Plant–Precast Structural Concrete] [03450 – Plant–Precast Architectural Concrete] [03470 – Tilt–Up Precast Concrete] [____ – ____]: Concrete elements.

1.2 SUBMITTALS

Edit the following paragraph to indicate the correct Division 1 section.

A. Submit under provisions of Section [01330] [____]:

1. Product Data: Include manufacturer's specifications, surface preparation and application instructions.

1.3 DELIVERY, STORAGE AND HANDLING

Edit the following paragraph to indicate the correct Division 1 section.

A. Deliver, store, and handle products under provisions of Section [01600] [____].

B. Store materials in a dry area at a temperature between 40 and 100 degrees F (4 to 38 degrees C). Provide adequate ventilation and keep away from ignition sources.

1.4 PROJECT CONDITIONS

A. Environmental Requirements: Do not apply release agents during wet weather or at temperatures below 40 degrees F (4 degrees C).

2 PRODUCTS

2.1 MANUFACTURERS

A. Manufacturer: Dayton Superior Corporation, 402 South First Street, Oregon, IL 61061, (800) 745–3707.

Edit the following paragraph to indicate whether substitutions will be permitted; indicate the correct Division 1 section.

B. Substitutions: [Not permitted.] [Under provisions of Section [01630] [____].]

2.2 MATERIALS

Include the following for a standard ready–to–use, petroleum based, chemically reactive form release agent. Do not use this product as a bond breaker or release agent for lift or tilt–up construction.

A. Form Release Agent:

1. Product: Clean Strip (J–1).

2. Description: Petroleum based, ready–to–use, chemically reactive concrete form release agent.

**** OR ****

Include the following for a ready–to–use, premium, chemically active form release agent. Do not use this product as a bond breaker or on expanded polystyrene. This product is also recommended for precast applications.

B. Form Release Agent:

1. Product: Clean Strip Ultra (J–3).

2. Description: Premium grade, ready–to–use, chemically active concrete form release agent.

**** OR ****

Include the following for a VOC compliant, ready–to–use, premium, chemically active form release agent. Do not use this product as a bond breaker or on expanded polystyrene. This product is also recommended for precast applications.

C. Form Release Agent:

1. Product: Clean Strip Ultra (J–3 V.O.C.).

2. Description: Premium grade, ready–to–use, chemically active concrete form release agent.

3. VOC compliant.

**** OR ****

Include the following for a premium, ready–to–use, water based, VOC compliant, biodegradable

form release agent. Do not use this product as a bondbreaker.

D. Form Release Agent:

1. Product: Clean Strip Biodegradable (J-4).
2. Description: Premium grade, ready-to-use, water based, biodegradable form release agent. Include the following for form ties for heavy and light pouring of concrete walls.

E. Form Ties: Type as recommended by manufacturer to suit project conditions.

3 EXECUTION

3.1 PREPARATION

- A. Clean surfaces to remove rust, dirt, dust, and residues that could transfer to final concrete surface.
- B. Allow surfaces to dry before beginning application.

3.2 INSTALLATION OF FORM TIES

- A. Install form ties in accordance with manufacturer's instructions.

3.3 APPLICATION OF FORM RELEASE AGENT

- A. Follow manufacturer's instructions for application and coverage.
- B. Apply uniformly by low pressure spray, roller, or brush.
- C. On new wood forms, apply sufficient compound to saturate the wood prior to the first use of the forms. If more than one application is required for saturation allow 5 to 6 hours drying time between coats.
- D. On smooth, dense forms including metal, spray apply compound, then wipe down with clean, soft cloths.
- E. Do not apply to reinforcing steel.
- F. Do not over-apply.
- G. Reapply after each use of forms.

END OF SECTION