

# CEILCOTE® 477 CEILGARD®

*Low volatile organic compound (VOC) urethane*

## DESCRIPTION:

CEILCOTE 477 CEILGARD coating is a high solids, high gloss, corrosion resistant coating designed for marine and industrial service conditions that require low VOC to meet air pollution regulations.

## TYPICAL USES:

A decorative and protective coating for metal and concrete in those environments where moderate to severe corrosive conditions exist. Excellent for heavy industrial and marine atmospheres and where long maintenance-free service life is required. NOT RECOMMENDED FOR CHEMICAL IMMERSION SERVICE.

- Metal/concrete exposed to chemical fumes.
- Surfaces exposed to environmental corrosion.
- Chemical process equipment.
- External pipe line Coatings.
- Offshore platforms.
- Bridges.
- Industrial, commercial and institutional facilities.
- Warehouse floors.

## ADVANTAGES:

- Meets existing VOC regulations.
- Resistant to chemical splash, spillage and fumes.
- Long lasting attractive finish, UV resistant.
- Abrasion resistant.
- Long maintenance-free service.
- Reduces dusting.

## COLORS:

Available in white, light, medium and dark gray, beige, tile red, and safety colors. Consult Master Builders regarding special colors.

## PHYSICAL PROPERTIES:

**Generic Type:** Acrylic - Aliphatic Polyurethane

**Solids by Volume:** 64 + 2%

**Volatile Organic Compound:** 2.5 lbs/gal  
(VOC) (300 g/l)

**Flash Point:**  
[Pensky-Martens  
Closed Cap (Mixed)] 86°F (30°C)

**Temperature Resistance:**  
(Continuous)  
Dry/Non-Condensing  
Fumes 225° F (107° C)

**Shelf Life:**  
One year when properly stored in unopened containers.

## COVERAGE (THEORETICAL):

340 to 510 ft<sup>2</sup>/gal (8.2 to 12.4 m<sup>2</sup>/litre) @ 3.5 to 5.0 wet mils

## MIX RATIO:

By Volume: 4:1  
Thinner: Not to exceed 10% with T-9507

## HANDLING PROPERTIES:

(Approximate Time)

@ 73° F (23° C)

Working time	3 hrs
Time to recoat	6 to 8 hrs
Time To handle	12 to 24 hrs
Light/medium traffic	2 to 4 days
Full cure	5 to 7 days

## PACKAGING:

5 gallon units.

## LIMITATIONS:

Do not apply CEILCOTE 477 CEILGARD coating below 50°F (10°C).

CEILCOTE 477 CEILGARD coating should be recoated within 1 week when exposed to sunlight; otherwise must be recoated within 4 weeks to assure proper adhesion of CEILCOTE 477 CEILGARD coating to itself. Confirm recoatability by wiping urethane with CEILCOTE T-9507, T-410 or methyl ethyl ketone. If surface becomes tacky, adhesion is acceptable. If not softened by solvent, surface must be gritblasted or mechanically abraded to provide a non-glossy, roughened surface.

## APPLICATION:

CEILCOTE 477 CEILGARD coating should be used over a clean suitable primer, intermediate or finish coat such as CEILCOTE/CEILGARD epoxies.

Thoroughly mix part A (base) with mechanical mixer and add part B (hardener), continue to mechanically mix for another 5 minutes.

Spray application is preferred; however, CEILCOTE 477 CEILGARD coating can be applied by brush for small areas. Application by roller is NOT recommended. Generally, application at 3.5 to 5.0 wet mils yields 2 to 3 mils dry.

**Conventional Spray** - Use Binks no. 18 gun with 66 X 66 PB tip and air cap or DeVilbiss no. P-MBC with DX 704 tip and air cap or equivalent. Use 60 to 80 psi atomizing pressure and fluid pressure of 10 to 25 psi.

**Airless Spray** -Use .013 to .019 inch tip orifice with 2000 atomization pressure. Spray 12 to 15 inches from surface using a 50% overlap procedure.

Important - For Airless application, thin CEILCOTE 477 CEILGARD coating with CEILCOTE T-9507 up to 10% by volume.

**Clean Up:**

Use CEILCOTE Solvent T-410, T-9507 or xylene. Observe fire and health precautions with solvents.

**Safety:**

Store in cool, dry area [50°F to 90°F (10°C to 32°C)] away from direct sunlight, flame or other hazards.

CEILCOTE 477 CEILGARD coating products contain polyisocyanate catalyst acrylic resins, ketone and aromatic hydrocarbon solvent. During application of CEILCOTE 477 CEILGARD materials, wear glove and appropriate work clothing to minimize contact. Ventilation is required with special consideration for enclosed and/or confined areas. Air movement must be designed to insure good turnover at all locations in work areas to avoid build-up of heavy vapors. Use caution when handling flammable liquids and eliminate all sources of ignition from work area.

Observe safe storage practices by separating resins from hardeners, by keeping solvents in a cool area free of sources of ignition.

Product Material Safety Data Sheets (MSDS) are available and should be consulted and on hand during application and/or whenever handling these products.

These products are for professional and industrial use only; application directions must be followed.

**MAINTENANCE:**

Periodically inspect the applied material and repair localized areas needed.

For additional information consult your Master Builders representative.

**Master Builders, Inc.**

**United States**

23700 Chagrin Boulevard  
Cleveland, Ohio 44122-5554  
(800) MBT-9990  
Fax (216) 831-6910

**Canada**

3637 Weston Road  
Toronto, Ontario M9L 1W1  
(800) 387-5862  
Fax (416) 741-7925

**Mexico**

Blvd. M. Avila Camacho 80, 3er Piso  
53390 Naucalpan, México  
011-525-557-5544  
Fax 011-525-395-7903