

## CP 506 Smoke and Acoustic Sealant

### Applications

- Sealing construction joints and through-penetration openings in non fire-rated acoustical assemblies and smoke partitions  
(Not for use in fire-rated applications)

### Advantages

- Easy to dispense, apply and tool
- Excellent airborne sound insulation properties
- Low shrinkage after curing
- Easy cleaning with water
- Paintable

### Tested / evaluated in accordance with:

- ASTM E 90
- ASTM C 834
- ASTM E 84
- ASTM C 919



Restricts smoke migration



Excellent sound insulation characteristics with application based testing in accordance with ASTM E 90.



| Technical Data                                      | CP 506   |
|---|--|
| Color   | white  |
| Chemical basis                                      | acrylic  |
| Storage and transport temperature range             | 40°F to 77°F<br>(5°C to 25°C)  |
| Curing time<br>(73°F / 50% relative humidity)       | approx. 3 mm / 3 days  |
| Skin-forming time<br>(73°F / 50% relative humidity) | approx. 15 min   |
| Application temperature range                       | 40°F to 104°F<br>(5°C to 40°C)   |
| Shelf life  | 24 months  |
| Sound transmission classification<br>(ASTM E90)     | STC 63<br>(per tested construction type)   |
| Movement capability (ISO 11600)                     | approx. 12.5%  |
| Mold and mildew (ASTM G21)                          | mold resistant   |
| Surface burning characteristics<br>(ASTM E84)       | Flame spread: 10<br>Smoke development: 10  |
| Air leakage<br>(Modified UL 2079 L-Rating)          | L-Rating at Ambient =<br>Less than 1 CFM / Lin Ft.<br>L-Rating at 400°F =<br>Less than 1 CFM / Lin Ft. |

| Description  |   | Package Contents | Item No. |
|--|---|------------------|----------|
| CP 506 smoke and acoustic sealant (580 ml foil pack) | ① | Case of 20 foils | 00412590 |
| CP 506 smoke and acoustic sealant (5 gallon pail)    | ② | 1 pail           | 00412591 |



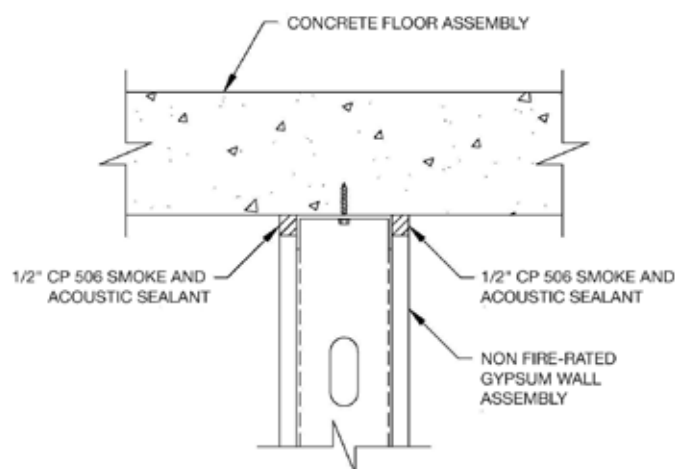
## Hilti. Outperform. Outlast.

## General guidelines for common acoustic seal applications

### Note

- These are suggested installation guidelines for common applications
- Obtain architect and appropriate authority having jurisdiction approval for specific application of use prior to installation
- For additional details refer to specific Hilti sound transmission and air leakage test reports
- Not for use in fire-rated assemblies

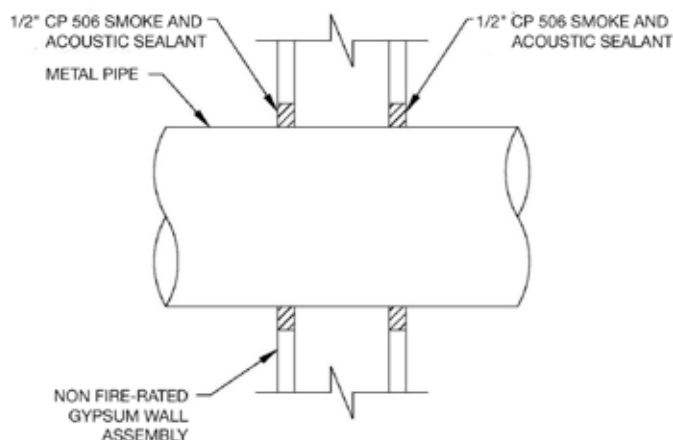
### Top of Wall



**System STC = 63**

(refer to STC test reports for wall construction details)

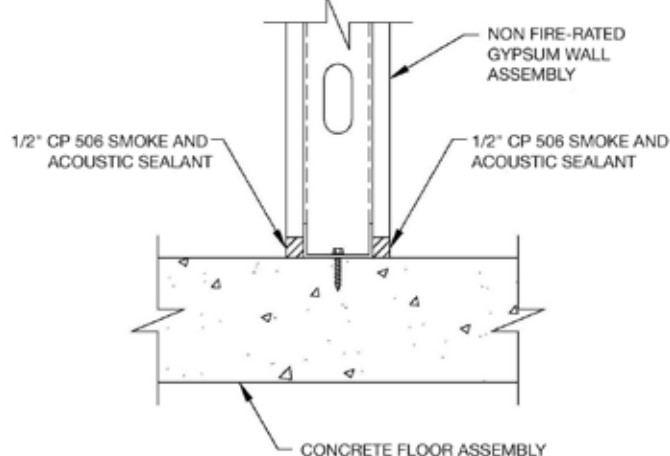
### Through-Penetration



**System STC = 63**

(refer to STC test reports for wall construction details)

### Bottom of Wall



**System STC = 63**

(refer to STC test reports for wall construction details)

## Installation instructions for CP 506

### Notice

- Before handling, read Material Safety Data Sheet and product label for safe usage and health information.
- Instructions below are general guidelines — always refer to the product label, applicable product test reports and/or architect requirements

### Opening

1. Clean the opening. Surfaces to which CP 506 will be applied should be cleaned of loose debris, dirt, oil, wax, grease, and other contaminants. The surface should be moisture and frost free.

### Application of sealant

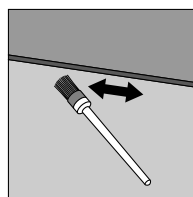
2. Apply sealant in opening at required depth
3. Smooth sealant with a trowel before the skin forms. Once cured, CP 506 can only be removed mechanically

### Not for use

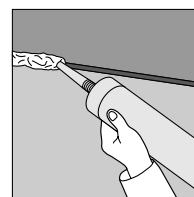
- On areas immersed in water

### Storage

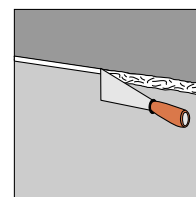
- Store only in the original packaging in a location protected from moisture at a temperature of 40°F to 77°F (5°C to 25°C)
- Observe expiration date on package



1. Clean opening



2. Apply CP 506



3. Tool CP 506

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MSDS No.: 326  
Revision No.: 001  
Revision Date: 12/01/09  
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## MATERIAL SAFETY DATA SHEET

**Product name:** CP 506 Smoke & Acoustic Sealant  
**Description:** Smoke/Acoustic Sealant for Non Fire Rated Assemblies  
**Supplier:** Hilti, Inc. P.O. Box 21148, Tulsa, OK 74121  
**Emergency # (Chem-Trec.):** 1 800 424 9300 (USA, PR, Virgin Islands, Canada); 001 703 527 3887 (other countries)

## INGREDIENTS AND EXPOSURE LIMITS

| Ingredients:     | CAS Number: | TLV:                 | PEL:                     | STEL:                        |
|------------------|-------------|----------------------|--------------------------|------------------------------|
| Ethylene glycol  | 00107-21-1  | NE                   | NE                       | C: 100 mg/m <sup>3</sup> (A) |
| Titanium dioxide | 13463-67-7  | 10 mg/m <sup>3</sup> | 15 (T) mg/m <sup>3</sup> | NE                           |

**Abbreviations:** PEL = OSHA Permissible Exposure Limit. TLV = ACGIH Threshold Limit Value. STEL = Short Term Exposure Limit. NE = None Established. (R) = Respirable dust (T) = Total dust (A) = Aerosol

## PHYSICAL DATA

|                          |                 |                             |                 |
|--------------------------|-----------------|-----------------------------|-----------------|
| <b>Appearance:</b>       | White paste.    | <b>Odor:</b>                | Negligible.     |
| <b>Boiling Point:</b>    | Not applicable. | <b>Vapor Pressure:</b>      | Not applicable. |
| <b>Melting Point:</b>    | Not determined. | <b>VOC Content:</b>         | 57.0 g/l        |
| <b>Evaporation Rate:</b> | Not applicable. | <b>Solubility in Water:</b> | Miscible.       |
| <b>pH:</b>               | 9.2             | <b>Specific Gravity:</b>    | 1.50            |

## FIRE AND EXPLOSION HAZARD DATA

|  |                                      |                          |                 |
|--|--------------------------------------|--------------------------|-----------------|
| <b>Flash Point:</b>                      | Not applicable.                      | <b>Flammable Limits:</b> | Not applicable. |
| <b>Fire / Explosion Hazards:</b>         | None known.                          |                          |                 |
| <b>Extinguishing Media:</b>              | As appropriate for surrounding fire. |                          |                 |
| <b>Special Fire Fighting Procedures:</b> | As appropriate for surrounding fire. |                          |                 |

## REACTIVITY DATA

|  |  |                                  |                 |
|--|--|----------------------------------|-----------------|
| <b>Stability:</b>                        | Stable.  | <b>Hazardous Polymerization:</b> | Will not occur. |
| <b>Incompatibility:</b>                  | Strong oxidizing agents.   |                                  |                 |
| <b>Hazardous Decomposition Products:</b> | Thermal decomposition can yield oxides of carbon and nitrogen.   |                                  |                 |
| <b>Conditions to Avoid:</b>              | Avoid temperature extremes that could shorten the shelf life of this product. See handling and storage requirements. |                                  |                 |

## HEALTH HAZARD DATA

|   |  |
|---|--|
| <b>Known Hazards:</b>                             | <b>Acute:</b> Product is slightly alkaline; minor irritation is possible. <b>Chronic:</b> None known.  |
| <b>Signs and Symptoms of Exposure:</b>            | <b>Eyes</b> - Can cause slight irritation but injury is unlikely. <b>Skin</b> - Can cause irritation with some individuals. <b>Inhalation</b> - No effects expected. <b>Ingestion</b> - Not considered to be a route of exposure. Effects of ingestion have not been determined. |
| <b>Routes of Exposure:</b>                        | Inhalation, Dermal.  |
| <b>Medical Conditions Aggravated by Exposure:</b> | Eye, skin, and respiratory conditions.   |
| <b>Carcinogenicity:</b>                           | No ingredients are classified as a carcinogen by IARC, NTP or OSHA.  |

## EMERGENCY AND FIRST AID PROCEDURES

|                    |   |
|--------------------|---|
| <b>Eyes:</b>       | Flush with plenty of water. Contact a Physician if symptoms occur.  |
| <b>Skin:</b>       | Wash with soap and water.   |
| <b>Inhalation:</b> | Move victim to fresh air. Call a Physician if symptoms occur.   |
| <b>Ingestion:</b>  | Seek medical attention. Do not induce vomiting unless directed by a Physician. Never give anything by mouth to an unconscious person. |
| <b>Other:</b>      | Referral to a physician is recommended if there is any question about the seriousness of the injury/exposure.                         |

## CONTROL MEASURES AND PERSONAL PROTECTIVE EQUIPMENT

|                                |   |
|--------------------------------|---|
| <b>Ventilation:</b>            | General (natural or mechanically induced fresh air movements).  |
| <b>Eye Protection:</b>         | Safety glasses with side shields.   |
| <b>Skin Protection:</b>        | Impermeable gloves are recommended.   |
| <b>Respiratory Protection:</b> | Not normally required. Where ventilation is inadequate to control vapors, use a NIOSH-approved respirator with organic vapor cartridges. Never enter a confined space without an appropriate air supplied respirator. |

## PRECAUTIONS FOR SAFE HANDLING AND USE

|  |   |
|--|---|
| <b>Handling and Storing Precautions:</b> | Store in a cool dry area. Keep from freezing. Shelf life is one year from date of manufacture if stored between 40° and 77° F (5 - 25° C). For industrial use only. Keep out of reach of children. Keep container sealed when not in use to prevent curing of the product. Avoid contact with the eyes and skin. Practice good hygiene; i.e. wash after using and before eating or smoking. |
| <b>Spill Procedures:</b>                 | Allow to cure and place in a container for proper disposal in accordance with all applicable local, state, or federal requirements. Not regulated as a hazardous waste according to federal EPA definitions.  |

## REGULATORY INFORMATION

|                                     |  |
|-------------------------------------|--|
| <b>Hazard Communication:</b>        | This MSDS has been prepared in accordance with the federal OSHA Hazard Communication Standard 29 CFR 1910.1200.  |
| <b>HMIS Codes:</b>                  | Health 1, Flammability 0, Reactivity 0, PPE B (Gloves, Glasses)  |
| <b>DOT Shipping Name:</b>           | Not regulated.   |
| <b>IATA / ICAO Shipping Name:</b>   | Not regulated.   |
| <b>TSCA Inventory Status:</b>       | Chemical components listed on TSCA inventory.  |
| <b>SARA Title III, Section 313:</b> | This product contains approximately 3-4% ethylene glycol which is subject to reporting under Section 313 of SARA Title III (40 CFR Part 372).                              |
| <b>EPA Waste Code(s):</b>           | Not regulated by EPA as a hazardous waste.   |
| <b>Waste Disposal Methods:</b>      | Consult with regulatory agencies or your corporate personnel for disposal methods that comply with local, state, and federal safety, health and environmental regulations. |

## CONTACTS

|                                 |  |                           |                |
|---------------------------------|--|---------------------------|----------------|
| <b>Customer Service:</b>        | 1 800 879 8000   | <b>Technical Service:</b> | 1 800 879 8000 |
| <b>Health / Safety:</b>         | 1 800 879 6000   | Jerry Metcalf             | (x1003704)     |
| <b>Emergency # (Chem-Trec):</b> | 1 800 424 9300 (USA, PR, Virgin Islands, Canada); 001 703 527 3887 (other countries) |                           |                |

The information and recommendations contained herein are based upon data believed to be correct; however, no guarantee or warranty of any kind expressed or implied is made with respect to the information provided.