WALLTITE® v.5

ULC ER-41037

Application Guidelines for Insulation / Air Barrier Material

WALLTITE v.5 is a medium density polyurethane foam insulation/air barrier material. WALLTITE v.5 produces an insulation/air barrier by the chemical reaction between an isocyanate and a resin. When these materials are combined in the spray gun's mixing chamber, an exothermic chemical reaction occurs. This exothermic reaction causes the blowing agent to create foam expansion. The final cured product is purple with indicator dye technology.
WALLTITE v.5 comes in two reactivity grades: WALLTITE v.5 Regular and WALLTITE v.5 Cold Temperature (WALLTITE v.5 CT). Unless specified, all references to WALLTITE v.5 in this document refer to all grades of WALLTITE v.5.

Warning! These products can be used to prepare a variety of polyurethane products. Polyurethanes are organic materials and must be considered combustible.

CERTIFIED CONTRACTORS ONLY

Only individuals trained and certified through both BASF Canada Quality Assurance Training Program (QATP) and Caliber Solutions Inc. can install WALLTITE v.5.
These Application Guidelines are for **general reference only**. For additional information regarding Spray Applied rigid polyurethane foam and WALLTITE v.5 application, please refer to the CAN/ULC S705.2 Application standard and reach out to BASF Field Technical Support Rep Team for WALLTITE v.5 or call 1-866-474-3538.

APPLICATION

Weather and Environmental Conditions

Ambient/substrate temperature, moisture/humidity, wind, sun/shade requirements are clearly elaborated in CAN/ULC S705.2 standard. Before beginning an application, ensure the surrounding environment meets the following conditions:

Wind	Max 15Km/h (9.3 mph)
Humidity	Relative humidity (RH) no greater than 80%
Temperatures	Reactivity is dependent on ambient and substrate temperatures
WALLTITE v.5	5°C to 40°C (41°F to 104°F)
WALLTITE v.5 CT	-10°C o 10°C (5°F to 50°F)
Substrates Service temperature	-60°C to 80°C (-76°F to 176°F)

Substrates Preparation

Prior to beginning application, determine if the substrate can be used with WALLTITE v.5 by conducting an adhesion test in accordance with CAN/ULC application standard S705.2. All substrates must be free of: Frost; Dew; Moisture; Dust; Oil; Grease; Oxidization (rust); and any other element that may affect how the product adheres to the surface. Moisture content should be less than 19% - see the CAN/ULC standard S705.2 and the QATP Manual for further information.
Metal surfaces require the application of a primer and may require sandblasting prior to priming.

Pass Thickness

The heat created by the exothermic reaction during application creates a risk of scorching and/or fire. This risk increases with pass thickness. WALLTITE v.5 must be applied to a minimum of 15mm (½") pass thickness and to a **maximum** of 50mm (2") pass thickness as per S705.2 standard.
If you spray a pass more than 50mm (2") you must immediately remove the WALLTITE v.5 from the substrate using a non-flammable tool such as a crowbar – do not use your hands. After removal, break up large pieces of WALLTITE v.5 on a non-flammable surface using the non-flammable tool.

Multiple Passes

WALLTITE v.5 must be sprayed by following the minimum required cooling time between passes as indicated in the table:

Number of passes	Single pass thickness	Total thickness	Regular wait time between passes	CT wait time between passes
2	2 in	4 in	0 minutes	15 minutes
3	2 in	4 to 6 in	15 minutes	15 minutes
4	2 in	6 to 8 in	15 minutes	30 minutes

WALLTITE v.5 Regular: A maximum of 4 passes to a total depth of 203.2mm (8") can be applied in a 24-hour period.
WALLTITE v.5 CT: A maximum of 4 passes to a total depth of 203.2mm (8") can be applied in a 24-hour period.

How to spray WALLTITE v.5 Regular and WALLTITE v.5 CT
The following equipment settings are recommended:

- Hose heat and primary heater temperatures of 32°C - 49ºC (90°F - 120ºF)
- Dispensing pressure of 52 - 76 bar (750-1100psi).
- Start with a hose heat of 43ºC (110ºF) and a dispensing pressure of 52 bar (750psi). Adjust those settings in small increments (+/- 3°C or 2°F and +/- 7 bar or 50 psi).
- Check the spray pattern and mix quality.

For detailed spray instructions, refer to the QATP Manual.

DAILY WORK SHEETS MUST BE COMPLETED AT THE END OF EVERY DAY.

TECHNICAL ASSISTANCE
Toll- Free: 1-866-474-3538
BASF Canada Inc.: **https://walltite.basf.ca/home/downloads**