

SHC 107-15

AEROGEL ADHESIVE



MAIN APPLICATION

- ◇ Ideal adhesive for aerogel insulation
- ◇ Quick setting synthetic elastomer adhesive

SHC 107-15 is a quick setting synthetic adhesive for installation of Aerogel.

COLOR

Yellow

APPLICATION TOOL

Brush

AVERAGE WEIGHT / LITER (ASTM D 1475)

0.79 ±0.05 kg/Liter

AVERAGE NON-VOLATILE (ASTM D 2369)

20% ±0.9 by volume

31% ±1.5 by weight

COVERAGE RANGE (SHTM 13)

(Subject to type of surface and nature of material being bonded)

0.16 kg/m²

Wet Film Thickness: 0.20 mm

Dry Film Thickness: 0.04 mm

BONDING TIME RANGE(25°C, 50%RH) (SHTM 12)

0 ~ 10 minutes

SERVICE TEMPERATURE LIMITS (SHTM 08)

(Temperature at coated surface)

-29°C ~ 93°C

WET FLAMMABILITY (ASTM D 3278)

Flash Point : -22°C

SURFACE BURNING CHARACTERISTICS (ASTM E 84)

Class 1 or A

Flame Spread: 10

Smoke Developed: 25

REMARKS

Store and apply between 4°C and 38°C.

Contains no asbestos, lead, mercury or mercury compounds.

Always test plastic materials and painted surfaces for compatibility when using a solvent base product.

Allow to dry to a solvent-free condition before installing weld pins.

Make certain this product is completely dry and the area is free from solvent odor if food is involved.

SHTM : SAM HWA TEST METHOD

Sam Hwa Chemicals Co., Ltd.

71-17, Cheonjeong 2-gil, Mokcheon-eup, Dongnam-gu, Cheonan-si, Chungnam, Korea T: +82-2-517-6847 E: sales@shckorea.com / www.shckorea.com

The warranted shelf life is one year from date of shipment.

210503



SHC 107-15

AEROGEL ADHESIVE

Preparation for application

- Do not thin product.
- Shake container or stir well as the product is so low viscosity that some solvent may appear on surface.
- Do not use breakable sticks or boards which are vulnerable to pollute product.
- Apply only to clean, dry, oil-free surfaces.
- In case of aerogel materials with rough surface, remove the least alien substances on surface in advance.
- Keep the container of product firmly closed in times of not in use to prevent evaporation of oil and surface skinning.

Application Method

- Apply SHC 107-15 at a thickness of 0.20 mm in wet when sticking aerogel insulation to another but 0.5mm in wet for lap sealing, which is equivalent to 0.16 kg/m².
- Allow 10 minutes of bonding time for insulation or lap sealing and then adhere closely.
For the highest adhesive strength be aware that bonding time varies depend on application temperature.
That is to say high temperature accelerates it while the low lengthens.
- This application provides dry film thickness of 0.04 mm.
- As rough or porous surfaces require more products, higher built thickness is recommended.

Tools

- Use clean brush.
- Be mindful to have uniform thickness using the tools.

Clean up

- As dried product is too difficult to remove, clean them before drying.
- After dried, use mineral spirits or chlorinated solvent, once cured, employ strong solvent like xylene to clean the equipment.