



PROJECT

Don McGill Toyota
Houston, TX

ARCHITECT

Hermes Reed Architect
Houston, TX

DETAILS

60,000 Sq Ft
K-13 White

Don McGill Toyota, located in Houston, TX has recently undergone an expansion that included the addition of a new repair center.

Automobile repair centers can become

extremely noisy with the sounds of vehicles coming and going and the machinery used to repair the vehicles. With the concrete floor and high metal roof deck, the acoustics within the facility have become a great concern. K-13 was the perfect choice to control the noise level within the repair center.

With the 1" application of K-13 on the underside of the roof deck of the service area, an impressive NRC (noise reduction coefficient) of 0.75 was achieved. K-13 creates a pleasurable working environment, by directly reducing the reverberation time.

The facility also required thermal protection. K-13 insulates by creating dead air spaces between and within its hollow fibers. Because K-13 fibers are sprayed-in-place, they fill cracks, seams and voids, forming a monolithic coating over

the substrate which reduces air filtration. Unlike prefabricated insulations, K-13 has no voids or compressed areas to reduce thermal efficiency. The result is more effective in-place product with exceptionally low heat transfer characteristics. This results in the outstanding field performance of K-13.

K-13 is available in six standard colors: black, dark grey, light grey, tan and beige. Custom colors are also available to match any interior decor. Arenas, museums, libraries, worship facilities, gyms and restaurants are just a few of the many types of projects that benefit from K-13. Contact International Cellulose Corporation today at (800) 444-1252 for complete details on how K-13 can improve your new construction and renovation projects - or visit our website at www.spray-on.com.

Section 07218
K-13 Spray On Systems
Specification Guide Rev 02/02

**PARTIAL LIST OF
SIMILAR PROJECTS**

SNELLVILLE, HONDA
SNELLVILLE, GA

MOBILE CAR DOCTOR
HOUSTON, TX

GUARDIAN AUTOMOTIVE
MOREHEAD, KY

BAY AREA FORD
HOUSTON, TX

AUTO DIRECT CAR DEALER
ROUNDROCK, TX

EURO MOTOR CARS
GERMANTOWN, MD

CLEVELAND BODY SHOP
CLEVELAND, OH

POMPANO HONDA
POMPANO BEACH, FL

NIMNIGHT PONTIAC GMC
JACKSONVILLE, FL



PART 1 - GENERAL

1.01 Section Includes

EDIT ACOUSTICAL WHERE REQUIRED

- A. Sprayed cellulose thermal and acoustical insulation.

1.02 Related Items

- A. Clips, hangers, supports, sleeves and other attachments to spray bases are to be placed by other trades prior to the application of sprayed insulation.
- B. Ducts, piping, conduit or other suspended equipment shall not be positioned until after the application of sprayed insulation.
- C. Roof penetrations to be installed prior to application.

1.03 Quality Assurance

- A. Manufacturer must be ISO 9001:2000 Certified.
- B. Applicator: Licensed by manufacturer
- C. Manufacturer must subscribe to independent laboratory follow-up inspection services of Underwriters Laboratory and Factory Mutual. Each bag shall be labeled accordingly.
- D. Mock-up: Apply a representative sample 100 square feet to be reviewed by the Architect and/or owner prior to proceeding.

1.04 Submittals

- A. Submit product data and manufacturers certificate that the product meets or exceeds specified requirements.
- B. Manufacturers written certification that product contains no asbestos, fiberglass, or other man-made mineral fibers.
- C. Copy of manufacturers ISO 9001:2000 Certification.

1.05 Delivery, Storage and Handling

- A. Deliver in original, unopened containers bearing name of manufacturer, product identification and reference to U.L. testing.
- B. Store materials dry, off ground and under cover.
- C. Protect liquid adhesive from freezing.

PART 2 - PRODUCTS

2.01 Acceptable Manufacturers:

- A. International Cellulose Corporation
12315 Robin Boulevard
Houston, Texas 77045
(713) 433-6701 or (800) 444-1252
FAX: (713) 433-2029
www.spray-on.com icc@spray-on.com
- B. For approved applicators contact ICC at 800-444-1252

2.02 Materials:

- A. K-13 Spray-On Systems
**COLOR SELECTION WILL AFFECT PRICE
1. Color shall be as indicated in Schedule 3.05
**ADD THERMAL RESISTANCE VALUES IF APPLICABLE
- 2. Apply at a minimum thickness to provide R values as indicated in Schedule 3.05
- 3. Comply with ASTM E-736 for field tested bond strength; tested @ > 5 years:
 - a. Not less than 400 psf
 - b. Not less than 600 times its weight @ 1"

- 4. Comply with ASTM E-84/U.L. 723, Tested at a minimum of 5" thickness Class I, Class A
Flame Spread: 5
Smoke Development: 5
- 5. Comply with local building code requirements.
- 6. Comply with ASTM E-1042

**EDIT NRC RATING IF APPLICABLE

- 7. NRC Rating:
 - a. Install at a minimum thickness to achieve an NRC rating as indicated in the Schedule 3.05.

K-13 Sprayed Thermal and Acoustical Insulation ASTM C-423 on Solid Backing*

	125	250	500	1000	2000	4000	NRC
1.00*	.08	.29	.75	.98	.93	.96	.75
1.00***	.47	.90	1.10	1.03	1.05	1.03	1.00
2.00*	.26	.68	1.05	1.10	1.03	.98	.95
3.00*	.57	.99	1.04	1.03	1.00	1.00	1.00

K-13 Sprayed Thermal and Acoustical Insulation Applied at 1.5" Ribbed Metal Deck*

	125	250	500	1000	2000	4000	NRC
1.50*	.36	.89	1.26	1.07	1.01	1.00	1.05
3.00*	.97	1.04	1.13	.99	.95	.98	1.05

*Some values interpolated

**On Lath

- 8. Non- corrosive per UMB-80
- 9. Bond deflection per ASTM E-759: 6" Deflection in 10' span no spalling or delamination.
- 10. Cohesive strength at time of application per Method WS-2000: >700 grams.

PART 3 - EXECUTION

3.01 Examination

- A. Examine surfaces and report unsatisfactory conditions in writing. Do not proceed until unsatisfactory conditions are corrected.
- B. Verify surfaces to receive spray insulation to determine if priming/sealing is required to ensure bonding and/or to prevent discoloration caused by migratory stains.

3.02 Preparation

- A. Provide masking, drop cloths or other satisfactory coverings for materials/surfaces that are not to receive insulation to prevent damage from over-spray.
- B. Coordinate installation of the sprayed cellulose fiber with work of other trades.
- C. Prime surfaces as required by manufacturers instructions or as determined by examination.

3.03 Installation

- A. Average thickness to achieve NRC value of 0.65 or greater.
- B. Install spray applied insulation according to manufacturers recommendations.
- C. Cure insulation with continuous natural or mechanical ventilation.
- D. Remove and dispose of over-spray.

3.04 Protection

- A. Protect finished surface under provisions of Division 1.

3.05 Schedule

- A. Provide a schedule when insulation requires listing by color, insulation value, NRC values and other attributes.

Professionally Installed By:



P.O. BOX 450006
 HOUSTON, TX 77245
 800/444-1252
 713/433-2029 (FAX)
www.spray-on.com