

Product Data Sheet

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HM45™

Hand Mix Polyurea

USGBC LEED, EQ Credit 4:
Low-emitting VOC Compliant Materials

Product Description- *RubberSource HM45* is a hand mixable, self-leveling, 100% solids, flexible, two-component polyurea and ambient temperature cured material. Designed for small coating applications, slab stabilization, and small patching where mixing by hand or pumping through non-heated plural component equipment is desirable.

Uses- *RubberSource HM45* is a superior hand mixable material designed specifically for applications requiring elastomeric qualities. **HM45** is flexible and accommodating to movement of the substrate. May be used for slab stabilization or as a low-pressure spray material with ambient cure on all bondable surfaces. **HM45** is capable of application well below freezing and is ideal for use in cold storage facilities, freezers, and food processing plants where time and temperature are serious concerns.

Ideal for Applications in:

- Small repairs on existing polyurea-rips & tears
- Slab stabilization
- Industrial facilities
- Manufacturing facilities
- Water & waste water treatment
- Food processing facilities

Advantages:

- 100% solids, no VOC's
- Flexible, 450 – 500% elongation
- Remains flexible in cold temperatures
- Return project to service in 3 hours
- Cures from -40°F to 130°F
- Odorless, no toxic vapors
- Hand mixable and brushable

Physical Properties-

(Typical) 1:1 Mix Ratio		
Cured Film Properties	Test Method	Typical Value
VOC	ASTM D3960	Zero
Solids content		100%
Pot life		3 – 4 minutes
Tack free		45 minutes
Initial cure		3 hours
Final cure		7 days
Tensile strength (psi)	ASTM D638	1400 – 1600
Tensile elongation (%)	ASTM D638	300 – 450
Tear strength, pli, Die C	ASTM D624	300 – 360
Shore D hardness	ASTM D2240	45+

The value ranges stated in this Technical Data Sheet are based on system processing under laboratory conditions. Equipment configurations and/or field application conditions may produce variances in final system values.

Limitations- Allow concrete surfaces to fully cure prior to application of **HM45**. **HM45** is an aromatic based polyurea. Discoloration from exposure to ultraviolet light may occur, however the physical properties are unaffected.

Packaging-

- Ten Gallon Kit: 5 gallons of 'A' side and 5 gallons of 'B' side.
- Two Gallon Kit: 1 gallon of 'A' side and 1 gallon of 'B' side.
- Six Hundred ML Cartridges: 300 ml of 'A' side and 300 ml of 'B' side packaged as a duplex cartridge. Ten cartridges per case.

Mixing-

- Hand Mixing: Mix in small quantities, mix equal amounts of 'A' and 'B' components until homogeneous mix is achieved. Add the 'B' side to the 'A', not 'A' to 'B'. If 'A' is added to the 'B', the material will have a thick, putty like consistency. Apply material directly to surface to be coated using a trowel or brush.
- Machine Dispensing: Use 1:1 ratio pump, with or without heater as required for individual application. Low-pressure spray head should be used for ambient cure spray applications.

Colors- Available pre-pigmented or non-pigmented.

Preparation & Installation-

For previously coated surfaces of Polyurea: surface should be clean and dry. Abrading the existing polyurea and wiping with **RS TackCoat** will help promote the adhesion of **HM 45**. Allow TackCoat to flash off/dissipate prior to application. Surface should be tacky.

For small bare steel substrates: SSPC SP-10, minimum surface profile of 2 to 3 mils. 3 mils required for immersion applications.

Clean Up- Cured product may be disposed of without restriction. Excess liquid 'A' & 'B' material should be mixed together and allowed to cure, then disposed of in the normal manner. Product containers that are "drip free" may be disposed of according to local, state and federal laws.

Safety- Review MSDS

Basic safety for personal protection is:

- Long sleeve overalls or disposable Tyvek overalls
- Rubber gloves
- Splash shield or safety glasses with splash guards
- Rubber or leather boots
- Respirator
- Do not use near high heat or open flame
- Do not take internally
- Keep out of reach of children

Shelf Life- One year from date of shipment, in original, unopened factory containers, under normal storage conditions of 60°F to 95°F (18°-35°C).

Technical Services- Sales and Customer Support 913-321-9000

Warranty-RubberSource Inc. will refund the price of or replace, at its election, product it finds to be defective provided the product has been used properly. Except as expressly stated above, the company makes no warranty of merchantability and no warranty of fitness for any particular purpose, nor does it make any warranty, expressed or implied, of any nature whatsoever with respect to the product of its use. In no event shall the company be liable for delay caused by defects, for loss of use, for indirect, special or consequential damages, or for any changes or expenses of any nature incurred without its written consent.