

1. Product Information

Description

PC-45HM is a two-component aromatic polyurea with a slower reaction with a longer gel time in order to be applied at ambient temperature and to be mixed by hand.

Features

- 100% Solids
- No VOC's, Odorless, No Toxic Vapors
- Good elasticity
- Good abrasion resistance Stability
- Resistant to hydrolysis
- High chemical resistance
- Working temperatures from -30°C – +85°C
- Good adhesion to many properly prepared substrates

Limitations

Cannot be used in situations of extremely high or low pH, coupled with high temperature immersion. Contact The Polyurea Company for a more suitable system.

2. Product Use

Applications

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

Mixing

Hand Mixing: Mix in small quantities, mix '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.

3. Physical Properties

Mix Ratio by Volume	1:1
Gel Time (Minutes)	20 - 25
Tack-Free Time (Minutes)	< 5 hours
VOC Content	0
Solids Content	100
Shore D Hardness, ASTM D2240	NA
Shore A Hardness, ASTM D2240	95 ± 5
Elongation %, ASTM D638, Type IV	400 ± 100
Tensile Strength (PSI), ASTM D638, Type IV	1740 ± 725
Tear Strength (lb./in.), ASTM D624, Die C	340 ± 170

The values stated in this technical data sheet are produced under controlled laboratory conditions.

4. Preparation and Installation

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

For small bare steel substrates: SSPC SP-10, minimum surface profile of 50 to 75 microns. Minimum of 75 microns is required for immersion applications.

5. Colors

Please contact The Polyurea Company for more information.

6. Packaging

10 Gallon Kit

5 gallons Part-A (Isocyanate) and 5 gallons Part-B (Resin)

7. Shelf Life

A properly stored product in original, unopened factory containers, kept at a temperature above freezing should have a shelf life of 12 months from the date of shipment. Proper storage temperature is 60°F to 110°F (16°C to 45°C).

8. Safety

For in-depth information on product safety and precautions, please review the product SDS sheets. Prior to using the product, ensure that you have the proper personal protection equipment (PPE) available. This includes but is not limited to the following items:

- Safety Glasses with a splash shield
- Minimum Organic Cartridge Respirator
- Rubber or Nitrile Gloves
- Disposable or Reusable Long Sleeve Overalls
- Rubber or leather boots

Always be sure to follow the precautions listed below when using the material:

- Do Not use near high heat or open flame
- Do Not take internally
- Keep out of reach of children

9. Maintenance

No Information Provided



PC-45HM

Hand Mix Polyurea System

Technical Data Sheet

10. Clean-Up / Disposal

Excess material can be mixed together at the proper ratio and disposed of without restriction once cured. Product containers may be disposed of according to local, state and federal laws.

11. Warranty

At its sole election, The Polyurea Company will refund the price of or replace product it finds to be defective provided the product has been used properly and installed by a certified The Polyurea Company applicator. 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, express or implied, of any nature whatsoever with respect to the product or its use. In no event shall the company be liable for delay caused by defects, loss of use, indirect, special or consequential damages, or for any charges or expenses of any nature incurred without its written consent.

12. Technical Support

For technical support, please you may send an email to support@thepolyureacompany.com.

Created Date: 03/01/2018
Revised Date: 09/19/2018
Notes: Not Available