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P-TUFF® U55

Two Component Aromatic Polyurea Protective Coating

DESCRIPTION

P-Tuff® U55 is a fast set, rapid curing, 100% solids, flexible, aromatic, two component spray polyurea that can be applied to suitably prepared concrete and metal surfaces. Its extremely fast gel time makes it suitable for applications down to -20°F. It may be applied in single or multiple applications without appreciable sagging and is relatively insensitive to moisture and temperature allowing application in most temperatures.

FEATURES

- ❖ Zero VOC (100% Solids)
- ❖ Seamless
- ❖ Excellent Thermal Stability
- ❖ Odorless
- ❖ No Toxic Vapors
- ❖ Non-Reactive
- ❖ Meets USDA Criteria
- ❖ Low Temperature Flexibility
- ❖ Good Chemical Resistance
- ❖ Coats Carbon or Mild Steel Metals without Primer
- ❖ Installed With or Without Reinforcement in Transitional Areas

TYPICAL USES

- ❖ Airports
- ❖ Power Plants
- ❖ Refineries
- ❖ Structural Steel
- ❖ Fertilizer Plants
- ❖ Warehouse Floors
- ❖ Mining Operations
- ❖ Cold Storage Facilities
- ❖ Food Processing Plants
- ❖ Landfill Containment
- ❖ Marine Environments
- ❖ Paper and Pulp Mills
- ❖ Secondary Containment
- ❖ Parking Garage Decks
- ❖ Walkways and Balconies
- ❖ Water and Waste Water Treatment
- ❖ Industrial and Manufacturing Facilities

COLORS

Neutral. Custom colors are available upon request.

TECHNICAL DATA

| | |
|---|----------------|
| Mix Ratio by Volume | 1A : 1B |
| Pot Life | 2-4 seconds |
| Tack Free Time | 60-120 secs |
| Recoat Time | 0-12 hours |
| Viscosity at 150-160°F (66.5-71°C), Brookfield: | |
| Part-A | 50 ± 20 cps |
| Part-B | 50 ± 20 cps |
| Density (Side A & B Combined) | 8.75 lbs/gal |
| Flash Point | >200°F |
| Hardness, ASTM D-2240 | 50 ± 5 D |
| Tensile, ASTM D-412* | 3000 ± 200 psi |
| Elongation, ASTM D-412* | 425% ± 20% |
| Tear, ASTM D-412* | 450 ± 50 pli |
| Service Temperature | -40°F to 250°F |

(*These physical properties from sample sprayed with Graco Foam Cat 200 @ 2000 psi minimum, with Gusmer GX7-400 mechanical purge gun @ 150-160°F. Different machine and parameter will change these properties. User should perform their own independent testing as properties are approximate.)

Due to its aromatic composition, P-Tuff® U55 will tend to yellow or darken in color and will become flat after exposure to UV light. P-Tuff® U55 may be topcoated with an aliphatic polyurethane/polyurea coating for a color-fast finish.

PACKAGING

10 gallon kit: One 5 gallon pail of Part-A and one 5 gallon pail of Part-B.

100 gallon kit: One 50 gallon drum of Part-A and one 50 gallon drum of Part-B.

COVERAGE

P-Tuff® U55 may be applied at any rate to achieve desired thickness. Theoretical coverage for 1 mil thickness is one gallon per 1600 sq. ft.

SURFACE PREPARATION

Refer to general guidelines for complete information.

MIXING

P-Tuff® U55 may not be diluted under any circumstances. Use appropriate

solvent for solvent purge line and flushing of equipment and if spraying stops for periods exceeding the potlife of the material. Thoroughly mix P-Tuff® U55 Part-B Base material with air driven power equipment until a homogeneous mixture and color is obtained.

APPLICATION

P-Tuff® U55 should be applied using a 1:1 plural component equipment capable of developing a minimum of 2000 psi and heating the individual component to 170°F using an impingement gun. Hose temperature should be maintained at 160-170°F. The P-Tuff® U55 material should be preheated to 75-85°F.

P-Tuff® U55 should be sprayed in multidirectional passes for a proper uniform thickness.

EQUIPMENT CLEANUP

Equipment should be cleaned with an environmentally safe, urethane-grade solvent (alcohol free) as permitted under local regulations immediately after use.

STORAGE

P-Tuff® U55 has a shelf life of one (1) year from date of manufacture in factory sealed containers.

Part-A and Part-B drums must be stored above 60°F.

Avoid freezing temperatures.

Store drums on wooden pallets to avoid direct contact with the ground.

If stored for a long period of time, rotate Part-A and Part-B drums regularly.

LIMITATIONS

Do not open until ready to use.

WARNING

This product contains Isocyanates and Curative Material.

Please read all information in the general guidelines, product data sheets, guide specifications and material safety data sheets (MSDS) before applying material. Published technical data and instructions are subject to change without notice. Contact your local PSI representative or visit our website for current technical data and instructions.

LIMITED WARRANTY

PSI warrants its products to be free of manufacturing defects and that they will meet PSI current published physical properties. PSI warrants that its products, when properly installed by a state licensed waterproofing contractor according to PSI guide specifications and product data sheets over a sound, properly prepared substrate, will not allow water migration for a period of 12 months. Seller's sole responsibility shall be to replace that portion of the product which proves to be defective. There are no other warranties by PSI of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. PSI shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty whether expressed or implied. PSI shall not be responsible for use of this product in a manner to infringe on any patent held by others. In addition, no warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, peeling, normal wear and tear or improper application by the applicator. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and/or physical movement of the substrate or structural defects are also excluded from the limited warranty. PSI reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator.

DISCLAIMER

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the users responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein are the only ones which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and PSI makes no claim that these tests or any other tests, accurately represent all environments.