RAPID SEAL 652

DESCRIPTION
Flexible, high performance polysulfide sealant

PRINCIPAL CHARACTERISTICS
- Rapid Seal 652 is a flexible, high performance sealant intended for use in chemical storage tanks where there will be exposure to a variety of chemicals such as gasoline, crude oil, or ethanol.
- This material is designed to seal fixed and floating roof systems in and around chemical storage tanks. Other uses are in the chime areas of the tanks to prevent water migration between the steel and concrete base. The cured sealant maintains excellent elastomeric properties after prolonged exposure to gasoline, crude oil or ethanol and water contact. It has a service temperature range of -65°F (-54°C) to 250°F (121°C).
- Rapid Seal is a two-part manganese dioxide cured polysulfide compound. The uncured material is a low-sag, thixotropic paste suitable for application by extrusion gun or spatula. The material can be applied to most typical vertical or overhead joints without sagging. It cures at room temperature to form a resilient sealant having excellent adhesion to steel and concrete.

COLOR AND GLOSS LEVEL
- Part A is Black, Part B is Off-White; Mixed product is Dark Gray

BASIC DATA AT 68°F (20°C)

<table>
<thead>
<tr>
<th>Data for mixed product</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of components</td>
<td>Two</td>
</tr>
<tr>
<td>Volume solids</td>
<td>95 ± 2%</td>
</tr>
<tr>
<td>Shelf life</td>
<td>Base: at least 9 months when stored cool and dry Hardener: at least 9 months when stored cool and dry</td>
</tr>
<tr>
<td>Consistency</td>
<td>Base viscosity, Brookfield #7 @ 2 rpm: 11,000 Poise</td>
</tr>
</tbody>
</table>
RAPID SEAL 652

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

- Immediately before applying the sealant or to prime the substrate, the surface should be cleaned well to remove dirt. Contaminants such as dirt, grease, and / or processing lubricants must be removed prior to treatment and sealant application.
- A progressive cleaning procedure should be employed using appropriate solvents, and a lint-free cloth (reclaimed solvents or paper products should not be used). Always pour solvent on the cloth to avoid contaminating the solvent supply. Wash one small area at a time. It is important that the surface is dried with a second clean cloth prior to solvent evaporating to prevent redepoding contaminants.
- Concrete surfaces need to be abraded per ASTM D4259 to obtain a rough surface profile approximately equal to #60 grit sandpaper. All dust and dirt should be removed by vacuum and / or brushing the surface before sealant application.
- If the adhesion characteristics to a particular substrate are in question, test samples should be evaluated prior to installation to confirm suitability for use.
- Joints to be sealed with Rapid Seal 652 should have a backer rod installed to control sealant depth to match typical joint design guidelines. Sealant should be tooled after application to ensure good contact of the sealant with the sides of the joint.

SYSTEM SPECIFICATION

- Primers: Direct to substrate; AMERLOCK 2 / 400 Series, AMERCOAT Epoxies.

INSTRUCTIONS FOR USE

Mixing ratio Part A : Part B (by weight): 10 : 100
- Mix according to the ratio indicated. When mixing can kits, mix Part A and Part B separately to ensure uniformity. Next, thoroughly mix the entire contents of both parts of the kit together while taking care to avoid leaving unmixed areas around the sides or bottom of the mixing containers.

Pot life
1 hour at 21°C (70°F)

ADDITIONAL DATA

Typical joint dimensions and sealant yield per gallon
- Joint size 1/2" wide x 1/4" deep......sealant yield 154 lin. ft. /gal
- Joint size 1/2" wide x 3/8" deep......sealant yield 103 lin. ft. /gal
- Joint size 3/4" wide x 3/8" deep......sealant yield 68 lin. ft. /gal
- Joint size 3/4" wide x 1/2" deep......sealant yield 51 lin. ft. /gal
- Joint size 1" wide x 1/2" deep......sealant yield 38 lin. ft. /gal

<table>
<thead>
<tr>
<th>Cure time (35 Shore A)</th>
<th>Substrate temperature</th>
<th>Dry to touch</th>
<th>Full cure</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>70°F (21°C)</td>
<td>less than 10 hours</td>
<td>less than 24 hours</td>
</tr>
</tbody>
</table>

May 2, 2018 (Revision of November 16, 2017)
Physical data of cured material

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cure hardness (24 hours)</td>
<td>37 Shore A</td>
</tr>
<tr>
<td>Cure hardness at 2 months</td>
<td>50 Shore A</td>
</tr>
<tr>
<td>Tensile strength (7 days RT)</td>
<td>300 psi</td>
</tr>
<tr>
<td>Elongation % (7 days RT)</td>
<td>300%</td>
</tr>
<tr>
<td>Peel strength (7 days RT) Steel / Aluminum</td>
<td>62 pli</td>
</tr>
<tr>
<td>Peel strength (environmental exposure at 77°F (25°C), 50% RH) Steel /Aluminum peel samples</td>
<td>Water (7 days): 63 pli; Water (3 months): 53 pli</td>
</tr>
<tr>
<td>Peel strength (environmental exposure at 77°F (25°C), 50% RH) Steel /Aluminum peel samples</td>
<td>Gasoline (7 days): 45 pli; Gasoline (3 months): 26 pli</td>
</tr>
<tr>
<td>Peel strength (environmental exposure at 77°F (25°C), 50% RH) Steel /Aluminum peel samples</td>
<td>Ethanol (7 days): 39 pli; Ethanol (3 months): 57 pli</td>
</tr>
<tr>
<td>Peel strength (environmental exposure at 77°F (25°C), 50% RH) Steel /Aluminum peel samples</td>
<td>Methanol (7 days): 60 pli; Methanol (3 months): 53 pli</td>
</tr>
</tbody>
</table>

Note: The application property values are typical for the material, but not intended for use in specifications or for acceptance inspection criteria because of variations in testing methods, conditions, and configurations.

DISCLAIMER

• For industrial or professional use only

SAFETY PRECAUTIONS

• This product is safe to use and apply when recommended precautions are followed. Before using this product, read and understand the Safety Data Sheet (SDS), which provides information on health, physical and environmental hazards, handling precautions and first aid recommendations. A SDS is available upon request. Avoid overexposure. Obtain medical care in case of extreme overexposure.

REFERENCES

• CONVERSION TABLES
• EXPLANATION TO PRODUCT DATA SHEETS
• SAFETY INDICATIONS
• SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD – TOXIC HAZARD
RAPID SEAL 652

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Rapid Seal 652 is supplied in 1-gallon, two-part can kits.