EQUIPMENT FOUNDATION SYSTEMS

Chockfast® ESCOWELD®

# IMPAX Flexible Joint Sealant

Technical Bulletin # 1027A

## Product Description

IMPAX Flexible Joint Sealant is a two-component, polymer hybrid compound containing both urethane and epoxy resins that provides a tough, resilient filler for expansion joints. This unique chemistry allows excellent flexural strength and elongation while maintaining impressive tensile strength. It also has good adhesive strength and flexibility over a wide temperature range.

## Use & Benefits

IMPAX Flexible Joint Sealant is a filler and sealer for engineered control joints to prevent damage to the joint and its edges. It is also suitable for sealing cracks. Benefits include:

- 100% Solids, solvent-free product
- Excellent adhesive strength and flexibility
- Pourable grade, superior workability
- Easily mixed with drill and mixing blade
- High chemical resistance

## Surface Preparations

All surfaces must be sound, clean and dry. Remove all oils, grease and other foreign or unwanted material, in and around the joint prior to application. Insert a backer rod into the joint to the desired depth of the joint sealant. The depth of the joint sealant is measured from the top of the backer rod to the top of the joint. To insure adequate joint elasticity, the depth of the sealant should not exceed twice the joint width. Tape off the joint up to the edge on either side.

## Application Instructions

The application surfaces and joint sealant material must be at a sensible working temperature range during application (see back for application temperature information). Dual cartridge kits come with a static mixer. Larger quantities should be power mixed using equal parts of Component A and Component B until streak-free using a Jiffy Model HS or equal mixing blade. Dispense or pour mixture slowly into the joint allowing the material to settle. A second application may be necessary if material settles too much. Scrape excess sealant flush with top of joint using putty knife and remove tape.

## Estimating Guide

Linear Feet Per Gallon of Sealant Required
Each Gallon Yields Approximately 231 cu. in.

Width of Joint

| Depth of Joint Sealant | 1/4” | 3/8” | 1/2” | 5/8” | 3/4” | 7/8” | 1” |
|---|---|---|---|---|---|---|---|
| 1/4” | 308 | 205 | 154 | 123 | 102 | 88 | 77 |
| 3/8” | | 136 | 102 | 82 | 68 | 58 | 51 |
| 1/2” | | | 77 | 61 | 51 | 44 | 38 |
| 5/8” | | | | 49 | 41 | 35 | 30 |
| 3/4” | | | | | 34 | 29 | 25 |
| 7/8” | | | | | | 25 | 22 |
| 1” | | | | | | | 19 |

ITW POLYMER TECHNOLOGIES
130 Commerce Drive • Montgomeryville, PA 18936
Phone 215-855-8450 • Fax 215-855-4688 • www.chockfast.com

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## Physical Properties

| | |
|---|---|
| TENSILE ELONGATION | 50% @ Breaking Point @ 72°F (22°C) |
| VISCOSITY | Part A - 350 to 550 Poise<br>Part B - 200 to 350 Poise<br>Mixed – 17,000 cps |
| FLASH POINT | 200°F (93°C) |
| VOCs | 0 lbs./gal. (0 gms./ltr.) - based on mixed components |
| SERVICE TEMPERATURE | -40°F to 200°F (-40°C to 93°C) |

## Product Information

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|---|---|
| COLOR | Gray |
| MIX RATIO | 1:1 equal parts resin/hardener by volume |
| PACKAGING | 600 ml Dual Cartridge Kit with Static Mixing Nozzle. Comes 12 Kits to the case.<br>1 gal. unit consists of 1/2 gallon can of resin and 1/2 gallon can of hardener (3.78 liters unit volume |
| COVERAGE (approximate) | 600 ml Cartridge – 37 $in^3$ (0.16 gal)<br>1 Gal Unit - 231 $in^3$ (1,490 cc) |
| APPLICATION TEMPERATURE | 55° minimum to 100°F maximum<br>(13° C min to 38° C max) *Must be 5°F above dew point |
| CURE TIME (approximate) | Moderate Service -- 24 hrs. @ 72°F (22°C) @ 50% RH<br>Full Cure -- 5 days @ 72°F (22°C) @ 50% RH |
| POT LIFE | 45 mins. @ 72°F (22°C) |
| CLEAN UP | IMPAX IXT 59 Solvent |
| SHIPPING WEIGHT | 1-gal. Unit – 16.5 Lbs. (7.48 Kg) |
| PACKAGING per Unit | Resin (NH) - 6 lbs. (2.7 kg), 0.72 gal (2.7 L) in a 1/2 gal can, Hardener (H) – 6 lbs. (2.7 kg), 0.72 gal (2.7 L) in a 1/2 gal can |
| SHELF LIFE | 12 months in closed container stored @ 50°F to 90°F (10°C to 32°C) |

## Precautions

Provide ample ventilation in all areas of handling, mixing and use. Avoid prolonged breathing of possible fumes. Minimize skin contact. Use of goggles, rubber gloves and protective creams is recommended. Always wash exposed areas immediately using warm water and soap, followed by rinsing with clear water. Observe all safety precautions when using any type of solvent for skinning or cleaning tools and equipment.

## Date 1/2009

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