

## Best Practices & Guide

### Icynene-Lapolla ProSeal X™ Best Practices

**In order to properly process Icynene-Lapolla ProSeal X™ and to maximize yield, please adhere to the following guidelines:**

#### **Storage:**

- Once received, ProSeal X™ drums should be stored at 60°F to 85°F.
- ProSeal X™ drums should be stored out of direct sunlight and out of cold temperatures.
- Do not store material on rigs other than what is required for current application needs, as materials left inside of rigs can easily exceed these recommended storage temperatures.
- ProSeal X™ B-side resin has a (6) month shelf life if stored as stated.
- Follow FIFO (First-In-First-Out) stock rotation.

#### **Mixing:**

**Note: Icynene-Lapolla ProSeal X™ does not require any mixing prior to or during application.**

If changing to Icynene-Lapolla ProSeal X™ from another product, follow the changeover procedure below.

#### **Heating:**

- Drum temperatures for processing Icynene-Lapolla ProSeal X™ (B-side Resin and A-side Iso) need to be between 70°F and 85°F.
- **In cold weather the Icynene-Lapolla ProSeal X™ drums should be kept at the stated storage temperature range so that pre-heating is not necessary.**
- Electric Space Heaters or electrically heated drum blankets can be used to warm and maintain the drum temperatures between 70°F and 85°F.
- Drums need to be heated slowly over a 24 - 48 hour time period.
- Do not exceed 85°F as the blowing agent will start to come out of the resin blend which may lead to frothing, poor quality foam, and a possible pressure build up in the drum.
- **Note: Do not circulate the Icynene-Lapolla ProSeal X™ B-side resin to warm the drum.**

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## Processing Temperature and Pressure:

In standard ambient conditions of 70°F to 85°F Icynene-Lapolla recommends the following for processing ProSeal X™:

**Drum Temperatures: 70°F to 85°F**

**A and B Primary Heaters: 110°F +/- 5°F degrees**

**Hose Heat: 110°F +/- 5°F degrees (ADJUST TO CONDITIONS)**

**Mix Chamber: AR 4242 (01 round) 1000-1150 psi AR5252 (02 round) 1100-1300 psi**

**Spray Distance: 18” to 24”**

- Ideally the foam should stop rising in about 4 to 5 seconds.
- In colder weather, increase the A, B and Hose heats gradually to achieve this rise time.
- In hotter weather, decrease the A, B and Hose heats gradually to achieve this rise time.
- To maximize yield Icynene-Lapolla recommends using an AR5252 (02 round) at 1200 psi dynamic pressure.

Mix Chamber Size	Pressure (dynamic)	Distance
01 (4242)	1000 - 1150 psi	18” - 24”
02 (5252)	1100 - 1300 psi	18” - 24”

**Please be aware that altering recommended settings may cause poor foam quality and a substantial reduction in yield.**

## Environmental Issues:

- Icynene-Lapolla ProSeal X™ may be sprayed at ambient / substrate temperatures between 23°F to 122°F
- Use wind screens if spraying where the wind speed is over 10mph.
- Wet, saturated substrates will cause bubbling in the foam and loss of adhesion.
- Substrates must be clean, dry and free of contaminants such as grease, oil and solvents.

## Spray Technique:

**ProSeal X™ is limited to a maximum of 2 inches per pass**

**For wall cavities and roof deck applications installers must use a picture frame technique with a 2 inch maximum thickness along the studs**

**Installers then must use a vertical spray technique for the first 2 inch pass and each subsequent pass after that.**

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**Must wait a minimum of 10 minutes between the 1<sup>st</sup> and 2<sup>nd</sup> pass and 20 minutes between any additional passes up to 2 inches per pass**

**Any application over sheetrock, baffles or a thin gauge metal, a 1 inch initial pass is required. A 10 minute wait time and then additional passes can then be applied**

**\*\*If spraying over Polyethylene baffles the baffles need to be secured with an adequate amount of staples to ensure baffles do not pull from substrate.**

- Maintain the proper distance as recommended above.
- Always spray with the spray gun at a 90 degree angle to the substrate.
- For flat concrete or metal substrates maintain a gun angle of 90 degrees and a spray distance of around 18" to 24" (depending on psi) with an overlap of around 50 percent.
- Build thickness by spraying on to the expanding material (known as the "cream").
- Cold substrates below 50°F may require "flashing" at 1/8" inch of foam to assist in warming the substrate

### Changeover:

- **If you are changing in to ProSeal X™ from another product you must not allow the other product to contaminate the ProSeal X™ resin drum.**
- Make sure the drum pump and pump housing are completely free of the previous resin.
- Allow some air in to the drum pump.
- Put the drum pump in to the drum of ProSeal X™ resin.
- If you have a re-circulation/pressure-relief line, pump the contents to the previous drum or into a waste container with the transfer pumps.
- Connect the re-circulation/pressure relief line to the ProSeal X™ drum lid.
- Remove the gun from the hose manifold and pump the hose contents in to the previous drum until you see a color change or until you reach the air pocket in the line.
- Keep the hose heat on at 80°F during changeover.
- There will be some mixture of the two resins in the line which you can run in to a container for disposal or spray out as foam for disposal.
- Spray a test bun and check for foam quality and pattern.
- Make sure recommended settings are followed before installing ProSeal X™ as outlined above.

**Before spraying Icynene-Lapolla ProSeal X™ for the first time you should contact Icynene-Lapolla Technical Services for installation guidance.**

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