



# Masonry Cavity Walls

Wind, water and vapor protection  
insulation and condensation control

ICYNENE offers a cost-effective, simple way to solve wind, moisture and insulation problems in one step.

## *ICYNENE is continuous and flexible*

ICYNENE is sprayed in place and adheres strongly to brick, block, steel and concrete. It flows into cracks and around ties and other protrusions. It is flexible when applied and remains flexible. It cannot crack and this ensures the lifelong integrity of the air seal in spite of the differential in coefficients of expansion of the wall and metals ties to which it adheres.

With full adhesion, ICYNENE forms a durable, continuous, monolithic control to air and vapour movement, as well as providing insulation. ICYNENE will not produce corrosion of metals ties.

## *ICYNENE keeps building costs and schedules on track*

Its low density gives ICYNENE a cost advantage over higher density CFC and HCFC-based products, and it can be installed under any weather and temperature condition. Once the installer arrives work proceeds fast. The speed of reaction of ICYNENE allows it to be applied at rates in excess of 1,500 board feet an hour – a number that no alternative can match. Other trades are not disrupted and critical building schedules are kept on track.

## *ICYNENE – compare it with the alternatives: it shines*

ICYNENE eliminates the laboriously slow installation of some systems. It requires no felt paper and no caulking, seams, joints or adhesives. There are no delays in construction schedules, no variability in bond strength and none of the tricky detailing that is required with conventional sheet and board goods.

ICYNENE eliminates any environmental concerns about ozone depletion from the release of CFC and HCFC

found in urethane or polystyrene insulation materials. ICYNENE is an environmentally friendly, polyisocyanate cellular plastic in which the air and water fulfill the functions performed by man-made gasses in other products.

You don't have to wait for a warm day, a dry day, or a cool day to call in the installer – because ICYNENE can be installed in any weather conditions and its chemistry guarantees that there can never be any unreacted components left on the wall ICYNENE is not damaged by ultraviolet light, and ICYNENE will not entrap moisture in the masonry to which it is applied. Its thermal resistance remains constant and its performance does not decline with time because it has no CFCs or HCFCs to release into the atmosphere.

Three inches of ICYNENE perform the same as two inches of urethane, or 2.3 inches of polystyrene – but cost less than either of them.

## **ICYNENE vs Polystyrene**

Heat flow at 70°F differential:

	heat flow in BTUs per hour:		
	ICYNENE	urethane	polystyrene
without ICYNENE	1,000	1,000	1,000
with 1 inch	250	172	200
with 2 inches	125	86	200
with 3 inches	83	NA	NA
R-value per inch	4.0	5.8	5.0
Approx relative cost per board foot	56	100	76

## *The importance of an air barrier*

Building codes recognize the importance of air-leakage control and require the installation of a continuous air-barrier system. Building scientists, designers and specifiers share the concern that inadequate air barriers, often installed the wrong place, are responsible for insulation underperforming from its laboratory-rated value.