



# CONTENTS

1

▪ INTRODUCTION

2

▪ ORGANIZATION

3

▪ BUSINESS SCOPE

4

▪ FACILITY

5

▪ PRODUCT SUMMARY

6

▪ APPLICATION

7

▪ DISTRIBUTION PROCESS

8

▪ APPROVAL

9

▪ REFERENCE

10

▪ CERTIFICATE

# 1. INTRODUCTION

## 1) INTRODUCTION

### ① **Company: TIC Corporation**

Subsidiary: TIC Global works Co., Ltd.

### ② **Year established: September, 2000**

### ③ **List of production**

#### A. WET PRODUCTS

(Mastics, Adhesives, Sealants, Coatings, Cements)

#### B. Bwrap (Self adhesive membrane)

#### C. H.V.A.C PRODUCTS

### ④ **Additional facilities**

A section: Office and Bwrap production line

B section: Raw material storage

C section: Office and Wet Products production line

D/E section: Warehouse



# 1. INTRODUCTION

## ⑤ Executives and staff members

- A. QC and sales: 12
- B. Production: 20
- C. R&D: 5

## ⑥ The total sales of 2014: 15 Milliion USD

## ⑦ Major accounts

- A. CAPE (In U.K. U.A.E, Qatar, Yemen)
- B. Wilhelmsen(In Korea, China) , KAEFER (In U.A.E, Saudi Arabia)
- C. HERTEL (In U.A.E, Saud Arabia, Singapore )
- D. SUNPOWER(In China), Global Suhaimi(Saudi Arabia)
- E .Meisei (In Japan), Omran Sanat (In Iran)
- F. NIOC (in iran), P.O.G,C (In Iran), Reliance (In India)
- G. Saipem (In France), Skore Technology(Algerie)
- H. HYUNDAI E&C, POSCO E&C, KANGRIM INSULATION, KD CERATECH, DONGSUNG  
FINETEC(Korea), Daelim E&C.



# 1. INTRODUCTION

## 2) HISTORY

2000 Sept. Established  
2001 April. Obtaining KOGAS approval for LNG terminal PJT  
2003 May. Obtaining ISO 9001















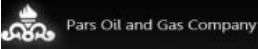
2005 DEC. Relocate to Cheonan City  
2006 Feb. INNO-BIZ accredited  
2008 Feb. TIC R&D center  
2008 Dec. Award tower of Three Million Dollar Export  
2009 June. Obtaining ISO 14001  
2009 July . Established TIC GLOBAL WORKS (Trading)



2012 July Established 2<sup>nd</sup> Factory  
2012 Sept. Obtaining vendor approval for GASCO (in U.A.E.)  
2012 Nov. Obtaining vendor approval for TAKREER (in U.A.E.)  
2013 Jan. Obtaining vendor approval for BOROGUE(in U.A.E)  
2014 Dec. Obtaining Certificate UL (No. 20141206-R37978)

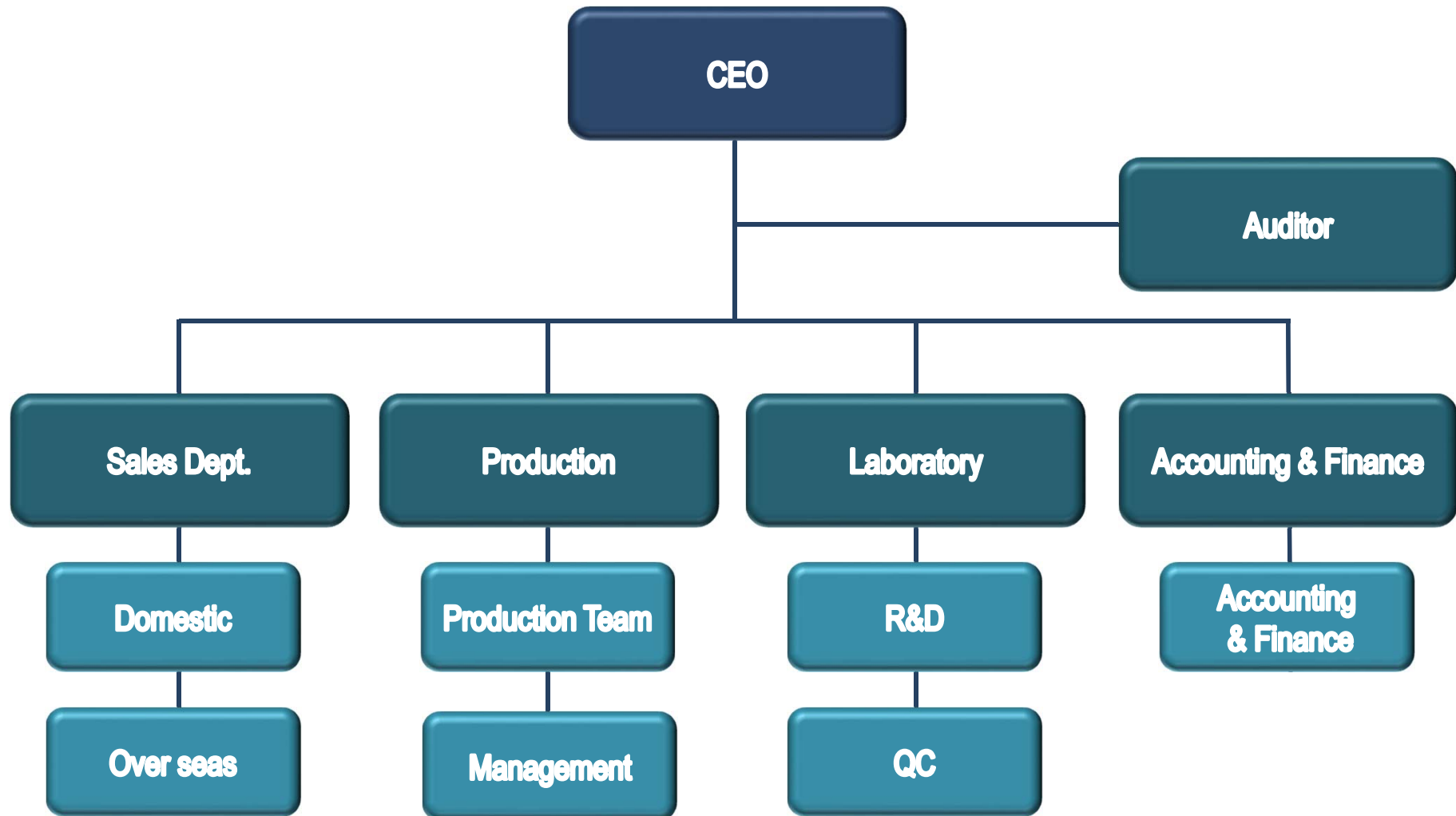
# 1. INTRODUCTION

## 3) Global major approval

AREA	COMPANY	
USA	EXXON MOBIL	
	FWW J/V (WOODSIDE, FOSTER WHEELER)	 
Europe	CB&I EUROPE B.V.	
	SNAMPROGETTI	
	TSKJ J/V (TECHNIP, SNAMPROGETTI, KBR, JGC)	  
	TECHNIP	
Middle East	GASCO	
	DOLPHIN ENERGY	
	RLOC (Ras Laffan Olefins Company)	
	ENI IRAN	
	N.I.O.C (NATIONAL IRANIAN OIL COMPANY)	
	P.O.G.C (PARS OIL & GASCO)	



## 2. ORGANIZATION



## 3. BUSINESS SCOPE

### Industrial Area

We have developed **Mastics, Coatings, Adhesives, Sealants, Cements and Bwrap** by our own technology and the excellence of our products have been approved in the market and have been supply our products to prominent Oil, Gas, Petro chemical projects in Korea and abroad. We also have been making constant efforts to range with prominent corporations in the world with our own brand by strengthening of technical competitiveness & to pioneer new markets.

**TIC Bwrap** is wrapping foam of product symbolized protection from external conditions. Vapor Barrier, wrapping type of self adhesive products, convenient to use at construction site and excellent performance to resist moisture blocking at the steam plant.



### Commercial Area

H.V.A.C. Referred to heating, ventilation, and air conditioning (**Mastics, Coatings, Adhesives, Sealants**)

#### HVAC Application field

- Air conditioning unit equipment
- Hot source facility
- Heat transport equipment.





# 4. FACILITY

## 1) EQUIPMENT – R&D CENTER

Description		Capacity	Q'ty
UTM	Tensile Strength	10 Ton	1
Drying Oven	Service Temperature	110V / 1200W / 180 C	2
Direct Driven Stirrer	Mixing for various purpose	0~3,000 RPM, 100W	2
Direct Driven Stirrer	Mixing for various purpose	0~600 RPM, 30W	1
Electronic Scales	Measuring for various purpose	0~21,000g (0.1g)	1
Electronic Scales	Measuring for various purpose	0~630g (0.001g)	1
Viscometer	Viscosity	50~200,000 CPS	1
Viscometer	Viscosity	12mm, 0.3~100 RPM	1
Constant temp & Humidity Chamber	Service Temperature / Water Vapour Permeance	Temp: -35 ~ 150 C Humidity: 35 ~ 98%	1
Crack Tester	Crack Test		4
Gravimeter	Density		1
Solid Measuring Instrument	Non-Volatile Contents		1
Sagging Tester	Sagging Test		4
W.V.T Cup	Water Vapour Permeance		12



Barrier system

# 4. FACILITY

## 2) EQUIPMENT – WET PRODUCTS LINE

Description	Capacity	Q'ty
Mixer	150 HP x 2,300 L	1
Mixer	75 HP x 1,500 L	1
Mixer	45 HP x 1,000 L	1
Mixer	30 HP x 6,000 L	1
Mixer	7.5 HP x 800 L	1
Mixer (Cement)	12 HP x 1,000 L	1
Mixer (Pilot)	5 HP x 400 L	1
Compressor	7.5 HP	2
Compressor	2 HP	2
Vacuum Pump	10 HP	1
Vacuum Pump	5 HP	1
Dust Collector	80 SQM / Min.	1
Industrial Sewing Saw	20 Sheet / Min.	1
Gum Pulverizer	15 HP	1
Gum Cutter	3 HP	1
Balance Weight	Various	10
Bead Mill	60 HP x 700 L	1





## 4. FACILITY





### 3) EQUIPMENT – BWRAP PRODUCTS LINE

Description	Capacity	Q'ty
Kneader (Primary Processing)	120Kg/Batch	2
Rubber sheet forming Line	200m <sup>2</sup> /HR	1



# 5. PRODUCTS SUMMARY

## 1) INDUSTRIAL PRODUCTS

Mastics	Sealants
	
Adhesives	Cements
	

**TIC Bwrap**

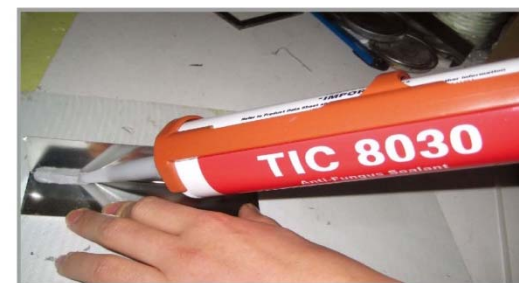


# 5. PRODUCTS SUMMARY

## 2) COMMERCIAL PRODUCTS

TIC® Code	Product Name	Water Vapour Permeance	Volume	Service Temperature (°C)	How to use
		(ASTM E96)	Non-Volatile		
TIC 2060	PVA Adhesive /Coating	≤ 2.0 perms (DFT 0.5 mm)	34±1%	-40°C ~ 93°C	Brush, Spray or Dip
TIC 2070	Resistance Coating	≤ 1.2 perms (DFT 0.8 mm)	40 ± 1%	-40°C ~ 93°C	Brush, Spray
TIC 2070AF	Anti-Fungus Coating	≤ 1.2 perms (DFT 0.8 mm)	40 ± 1%	-40°C ~ 93°C	Brush, Spray
TIC 4060	HS Vapour Barrier Coating	≤ 0.05 perms (DFT 0.9 mm)	45 ± 1%	-18°C ~ 82°C	Spray, Brush or Glove
TIC 5010	Aqueous Elastomeric Adhesive		53 ± 1%	-29°C ~ 98°C	Spray, Brush or Roller
TIC 6080	Rubber Contact Adhesive		25 ± 1%	-196°C ~ 93°C	Brush
TIC 6084	QS Elastomeric Adhesive		18 ± 1%	-40°C ~ 93°C	Spray, Brush or Roller
TIC 6085	Elastomeric Adhesive		21± 1%	-40°C ~ 93°C	Spray, Brush or Roller
TIC 8010	Flexible Sealant		56 ± 1%	-40°C ~ 93°C	Brush, Caulking gun or Power Extrusion Equipment
TIC 8020	Vapour Barrier Sealant	≤ 0.45 perms (DFT 0.9 mm)	58 ± 1%	-7°C ~ 93°C	Brush, Trowel, Caulking Gun or Power Extrusion
TIC 8030	Anti-Fungus Sealant		56 ± 1%	-7°C ~ 93°C	Brush, Trowel, Glove, Caulking Gun, or Power Extrusion

TIC code	Description	Application
TIC 2060	<b>PVA Adhesive/Coating</b> - Water based polyvinyl acetate emulsion adhesive with typical quick-setting properties.	Extensively used for adhering and sizing canvas and glass cloths, and other types of fabric covering over thermal insulation installed indoors.
TIC 2070	<b>Resistance Coating</b> - White, fire resistive, tough, washable, abrasion resistant indoor coating for thermal insulation.	Used as a lagging and lap adhesive for canvas and glass lagging cloth.
TIC 2070AF	<b>Anti-Fungus Coating</b> - White, tough, washable, abrasion resistant indoor coating for use over thermal insulation.	Designed to resist mold, fungus and mildew growth on its surface and protect the insulation system.
TIC 4060	<b>HS Vapour Barrier Coating</b> - Solvent based coating and designed for use on pipes, vessels, ducts and equipment operating below ambient temperatures.	Good for both indoor and outdoor use on commercial type applications.





# 5. PRODUCTS SUMMARY

TIC code	Description	Application
TIC 5010	<b>Aqueous Elastomeric Adhesive</b> - Water based adhesive designed for bonding low density (up to 0.05 Kg/l).	It is ideal for bonding fibrous glass insulation to concrete, block and other masonry surfaces in building construction. For duct liner, duct wrap and fibrous glass insulations to painted or unpainted steel, galvanized or aluminum surfaces.
TIC 6080	<b>Rubber Contact Adhesive</b> - Quick setting nonflammable fire-resistive, synthetic elastomeric adhesive.	Used to adhere duct wrap, fibrous glass or mineral wool insulations to galvanized steel and aluminum air conditioning or hot air ducts.
TIC 6084	<b>QS Elastomeric Adhesive</b> - Low cost, quick-setting synthetic elastomeric adhesive.	Used with fibrous glass insulation duct wrap and acoustical linings for air handling ducts.
TIC 6085	<b>Elastomeric Adhesive</b> - Economical, quick-setting, synthetic elastomeric insulation adhesive.	Designed for use in attaching low density (up to 0.05 Kg/l) duct liner and fibrous glass insulation to sheet metal.

TIC code	Description	Application
TIC 8010	<b>Flexible Sealant</b> - Fast setting elastomeric compound as a joint sealant for high velocity air conditioning ducts installed indoors.	Used for adhering duct fabrics and flexible tubing runouts to high velocity ducts and to mixing boxes or air diffuser heads.
TIC 8020	<b>Vapour Barrier Sealant</b> - Fire-resistive, fibrated water based, indoor/outdoor vapour barrier sealant with excellent weather resistance, low water vapor permeance.	Used as tough and flexible adhesive and sealant, forming a durable seal against air leakage when used with or without reinforcing tape or membrane.
TIC 8030	<b>Anti-Fungus Sealant</b> - Fire resistive, water based, indoor/outdoor, U.V. resistant, nonfibrated sealant.	Used for sealing ASJ, FRK, and FSK jackets and board facings at joints, laps and over staple and weld pin punctures, and for sealing flexible air ducts to rigid connectors





# 5. PRODUCTS SUMMARY



The R&D Center of TIC develops technologies and application for Mastic, Coating, Adhesive, Sealant and Cement. The power of TIC derived from ceaseless effort and investment to develop more advanced technology for Insulation material research.

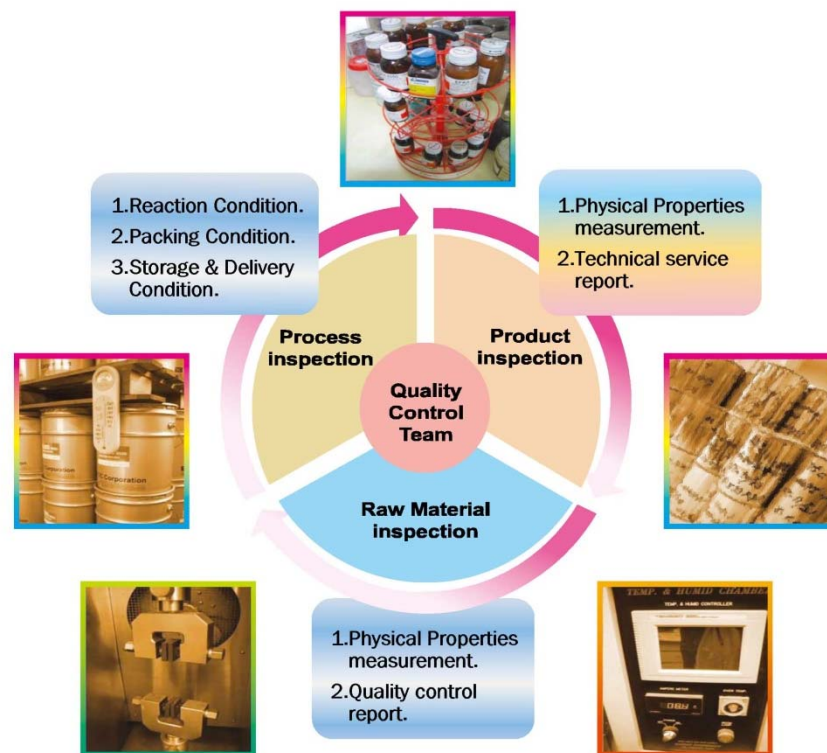


The R&D Center of TIC develops products only for customers satisfaction. The R&D Center of TIC will be a leader of insulation material research and development in the world.



## Impressing Customers with Best Quality

**TIC** Quality Control Team try to make World Best Quality product with customer satisfaction. TIC believes Best Quality product through precise test and efforts, it will hold reputation as a best supplier of Insulation in the world.

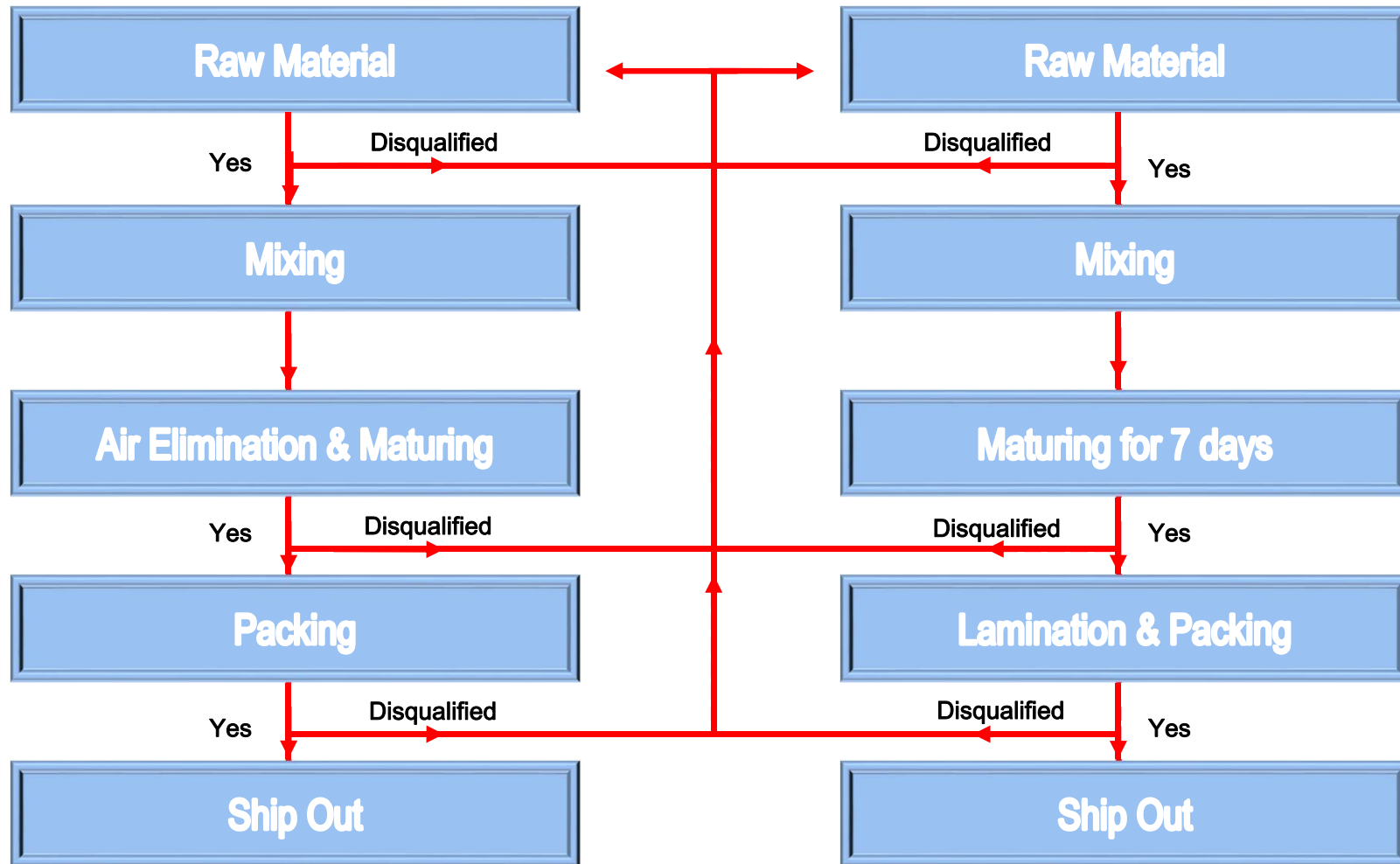


# 5. PRODUCTS SUMMARY

## 3) Manufacturing flow

Mastics / Sealants / Adhesives / Cements

Bwrap (Membrane Type)



## 6. DISTRIBUTION PROCESS



Storage at  
4 ~ 38 °C  
Indoor  
(All stocks take off  
within 2 months)



Container Stuffing  
Air-bag for protection  
Palletized Packing



Air-bag finish  
&  
Sealing

## 7. BENEFITS WITH TIC

### Research & Development Force

- ❑ **Professional R&D people will provide you various solutions for the insulation work scope.**
- ❑ **Control every quality issues.**
- ❑ **Uniformity & Equal Quality.**

### Professional Service

- ❑ **Fast delivery of quality products.**
- ❑ **Responsible actions after sales request.**
- ❑ **Quality verification more than a decade.**

# Thank You

<http://www.tickorea.com>

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