MIGHTY®

BUILDING RELIABILITY

MIGHTY ADHESIVE SDN. BHD

(233456-M)

CORPORATE PROFILE

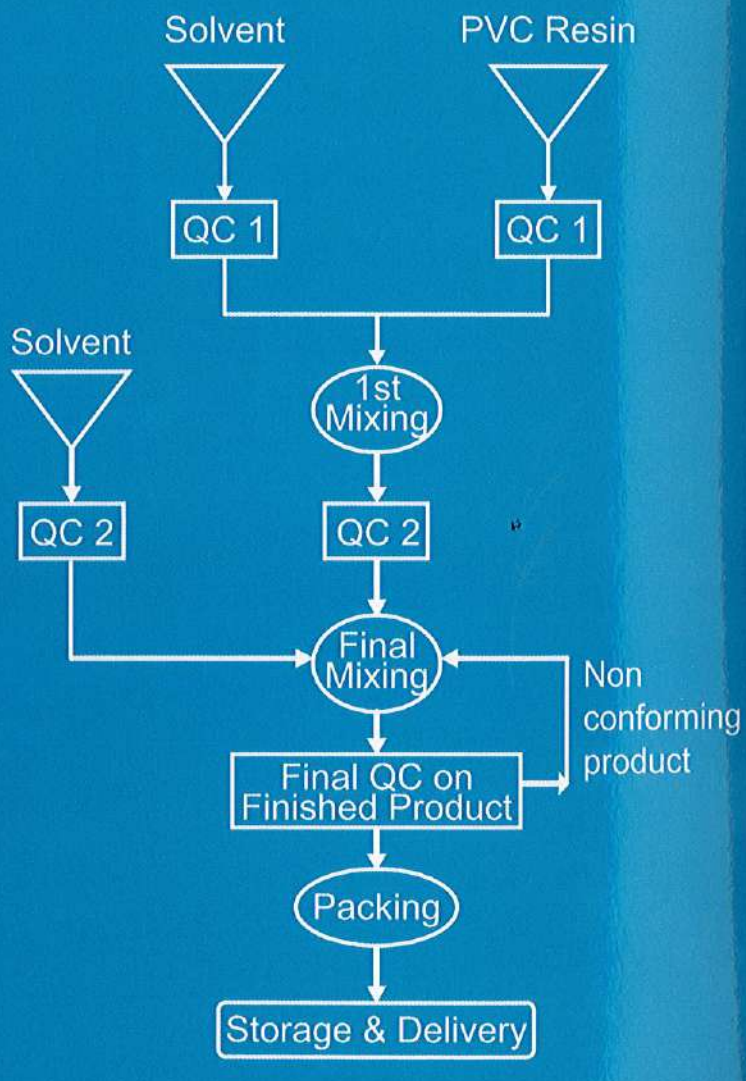
MIGHTY ADHESIVE SDN. BHD., established in 1980, is one of the leading UPVC Solvent Cement manufacturers in Malaysia.

With the initiate to produce high quality products and make it more competitive in the building and construction industry, MIGHTY has strived its great effort in research and development over the decades. Also, strongly due to our commitment in this industry, MIGHTY has earned a good reputation for both domestic as well as over 30 other countries, such as Australia, New Zealand, Bangladesh, Pakistan, China, Hong Kong, Thailand, Middle East and etc.

MIGHTY UPVC Solvent Cement

- The major characteristic of MIGHTY UPVC Solvent Cement is that the fluid is specially formulated in "Thin & Light".
- The "Thin & Light" MIGHTY UPVC Solvent Cement is highly soluble and which able to penetrate 0.4mm deep into the pipe's wall less than 5 seconds after application.
- It is more suitable for use on UPVC pipes in any cold weather condition.
- This type of solvent cement is produced by using a high-speed heat reacting mixer.
- Over the years, MIGHTY UPVC Solvent Cement has been granted and certified by SIRIM QAS International Sdn. Bhd. (Malaysia's leading certification, inspection and testing body which comply with internationally recognized standards) a license (No: PM042302) as complying with MS 628:PART 2 : SECTION 2.2 :1999 (equivalent to British Standard BS 4346 Part 3)

MIGHT UPVC Solvent Cement Process Flow Chart



When come to the final QC, we will randomly pick some samples from the finished products and proceed for our in-house testing. We always set our in-house testing requirement higher than the usual SIRIM or BS standard as shown in the table.

Number of testing hour(s)	Min shear strength level set by Standard*	Min shear strength level set by MIGHTY*
1 hour	0.6mpa or 86psi	2mpa or 285psi
24 hours	2mpa or 285psi	5mpa or 713psi
336 hours	Must above 5mpa or 713psi	7.5mpa or 1068psi

* Standard based on **MS 628:PART 2:SECTION 2.2 :1999** (equivalent to **British Standard BS 4346 Part 3**)

* 1mpa = 142.5psi

MIGHTY® EXTRA UPVC SOLVENT CEMENT

BUILDING RELIABILITY

MIGHTY EXTRA NO.70 UPVC SOLVENT CEMENT

Solid content : 24%
Consistency property : 1, 000cps
Quality : Tough & Resilient

Solid consists of : MEK & CYC
Colour : Transparent
Standard : MS628 Part II Section 2.2

- A highly soluble fast-dry UPVC solvent cement
- Suitable for joining all UPVC pipes from15mm – 100mm diameter
- When applied, it will instantly dissolve and blend with the pipe to produce a film (wall) of 0.4mm thick, so that the fitting gap will be strong and stable

STRAINING TIME

Pipes with diameter 15mm (1/2")	10 seconds
Pipes with diameter 25mm (1") to 32mm (11/4")	8 seconds
Pipes with diameter 50mm (2")	6 seconds
Pipes with diameter 75mm (3")	4 seconds

MIGHTY EXTRA NO.10 UPVC SOLVENT CEMENT

Solid content : 24%
Consistency property : 1, 000cps
Quality : Tough & Resilient

Solid consists of : MEK, CYC & THF
Colour : Transparent
Standard : MS628 Part II Section 2.2

- A highly soluble slow dry UPVC solvent cement
- Suitable for joining all UPVC pipes from 75mm – 200mm diameter
- When applied, it will instantly dissolve and blend with the pipe to produce a film (wall) of 0.4mm thick, so that the fitting gap will be strong and stable

STRAINING TIME

Pipes with diameter 25mm (1")	20 seconds
Pipes with diameter 32mm (11/4") to 50mm (2")	16 seconds
Pipes with diameter 75mm (3") to 100mm (4")	12 seconds
Pipes with diameter 150mm (6")	8 seconds
Pipes with diameter 200mm (8")	4 seconds

MIGHTY EXTRA HIGH HEAT RESISTANT UPVC SOLVENT CEMENT

Solid content : 40%
Consistency property : 3, 000cps
Quality : Tough & Resilient

Solid consists of : MEK, CYC & THF
Colour : Transparent
Standard : MS628 Part II Section 2.2

- A highly soluble slow dry UPVC solvent cement
- Suitable for joining non-standard UPVC pipes from 100mm diameter or where the UPVC pipe's fitting gap is too big
- When applied, it will instantly dissolve and blend with the pipe to produce a film (wall) of 0.8mm thick, so that the fitting gap will be strong and stable

STRAINING TIME

Pipes with diameter 25mm (1") and above	30 seconds
Pipes with diameter 32mm (11/4") to 50mm (2")	26 seconds
Pipes with diameter 75mm (3") to 100mm (4")	22 seconds
Pipes with diameter 150mm (6")	18 seconds
Pipes with diameter 200mm (8")	8 seconds

ATTENTION : *1. Temperature below 15°C (50°F) will extend the straining period for approximately 5 minutes for each type of pipe*
2. All the above solvent cement are not applicable to those UPVC pipe or fitting which are made of partly recycled material
3. After assembly, the pipe must be tightly held in place and shall only be released after recommended straining time as stipulated. If release prematurely, the pipe to be fitted will spring apart

PACKING	Ctn. Size
3 kg. x 8 Tins per ctn.	440mm x 360mm x 260mm
500 g. (with brush) x 20 Tins per ctn.	508mm x 220mm x 225mm
100 g. (with brush) x 60 Tins per ctn.	508mm x 220mm x 225mm
14 g. x 240 Tubes per ctn.	508mm x 220mm x 225mm

MIGHTY® EXTRA UPVC SOLVENT CEMENT

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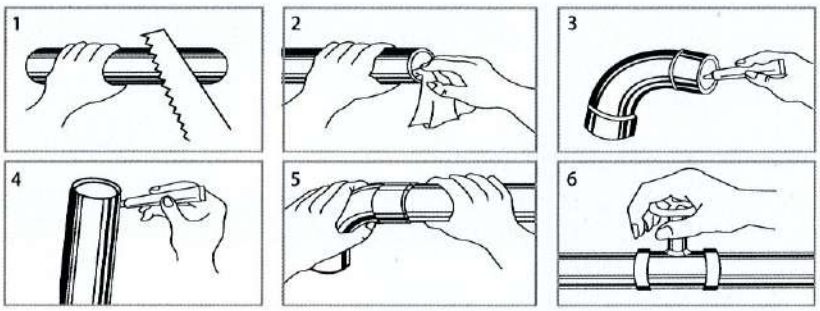
SOLVENT CEMENT REQUIREMENT FOR UPVC PIPES & PVC FITTINGS

Nominal Size of Pipe or fitting		Amount of Solvent Cement required per joint	Number of Possible Joints			
ins	mm	g.	14g.	100g.	500g.	3kg.
1/2	16	1.3	10	76	383	2300
3/4	20	2.0	7	55	250	1500
1	25	2.5	5	40	200	1200
11/4	30	3.2	4	30	156	937
11/2	40	5.0	2	20	100	600
2	50	7.2	1	13	69	416
3	75	12.0	-	8	41	250
4	100	15.5	-	6	32	193
6	150	26.0	-	2	19	115
8	200	49.0	-	1	10	61
10	250	75.5	-	-	6	39
12	300	108.0	-	-	4	27
14	350	146.0	-	-	3	20
16	400	200.0	-	-	2	15
18	450	250.0	-	-	2	12

DIRECTION FOR USE:-



1) Saw at the point to be mated, ensuring that the end of the pipe or fitting to form the spigot is cut right angles to its axis. Remove any scarf and other debris from the joining surface.
2) Clean the mating surface with a suitable uPVC cleaning fluid
3/4) Dip the clean brush (please refer to recommendations on brush) into solvent cement and apply it evently, by stroking along (and not round) the clean and dry mating surface.
5) Connect and fit the pipes to the mating surface properly and securely together. Avoid any vibration or movement until the recommended straining time is over.
6) Full pipes pressure can be applied in about twenty-four (24) hours after joining.

RECOMMENDATONS ON BRUSH:-

A: Pipes with diameter 25mm (1") and below - use brush as accompanied and affixed to can.
B: Pipes with diameter 32mm to 50mm (1 1/4" to 2") - use separate 1" brush.
C: Pipes with diameter 75mm to 200mm (3" to 8") - use separate 2" brush.

PRESSURE TEST:-

		TEST PRESSURE	DRYING TIME
No. 70 & No. 10	Cold Water (20°C)	Below 12kg/cm^2(171psi)	After 1 hour
	Hot Water (60°C)	Below 12kg/cm^2(171psi)	After 2 hour
High Heat Resistant	Cold Water (20°C)	Below 10kg/cm^2(142psi)	After 2 hour
	Hot Water (60°C)	Below 10kg/cm^2(142psi)	After 4 hour

MATERIAL SAFETY DATA SHEET

COMPOSITION / INFORMATION ON INGREDIENT:

Ingredient	PVC Resin	Cyclohexanone (C.Y.C)	Methyl Isobutyl Ketone (MIBK)	T.H.F.	Methyl Ethly Ketone (MEK)
CAS No.	9003-22-9	108- 94-1	141-79-7	109-99-9	78-93-3
% - Volume	24%	30%	11%	4%	55%

PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Clear Flash Point : 15°C DG Class: 3.2

Flammable Mixture (UN No. 1133)

This solvent cement material will ignite at ambient temperatures. Colourless vapors may travel considerable distance to ignition sources and cause flash fires or explosions.

HAZARD IDENTIFICATION

May cause eyes and skin irritation, burns or dermatitis.

STORAGE

Store in well-ventilated area. Keep away from heat, sparks and flame

SAFETY PHASE

- Keep away from sources of ignition - No-Smoking.
- Avoid contact with eyes.
- In case of fire, use chemical powder, foam or carbon dioxide