

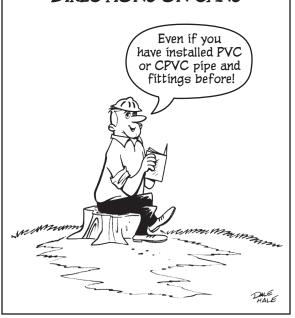
SOLVENT CEMENT WELDING

PVC & CPVC

PLASTIC PIPE and FITTINGS



READ THIS BOOK AND FOLLOW DIRECTIONS ON CANS

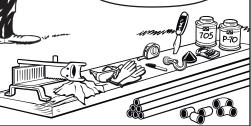


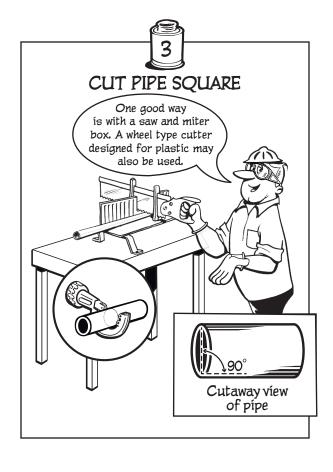


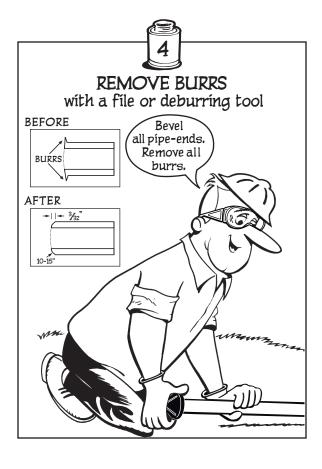
ASSEMBLE MATERIALS NEEDED

Safety glasses
and gloves. Clean rags,
tape measure, and marking
pen. Knife and deburring tool
(or file), Miter box, saw
or wheel cutter.

Right primer
and cement for the kind
and size of pipe and fitting
you are installing. Right
size applicator for specific
pipe size being used.









CLEAN PIPE WITH RAG





CHECK DRY FIT

Fitting should go over end of pipe easily but become tight about 1/3 to 2/3 of the way on. A good fit can be assured of by using pipe and fittings that meet applicable ASTM standards and code approvals.

1/3" to 2/3" interference fit

Pipe Fitting

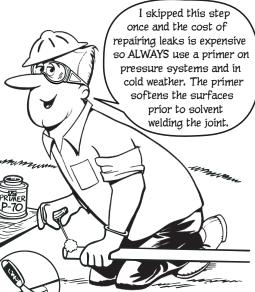
are ready to solvent weld. Turn the page and read on...

Now you



APPLY WELD-ON® PRIMER

to fitting...then pipe...and to fitting again



Check primer penetration and softening of the joining surface.



APPLY WELD-ON® CEMENT WHILE PRIMER IS STILL WET...



applicator at least 1/2 the size of the pipe.







WORK QUICKLY WHILE APPLYING CEMENT





ASSEMBLE IMMEDIATELY

Be sure to
bottom pipe in socket
while both surfaces are still wet,
twist the fitting a 1/4 turn while
inserting, then...





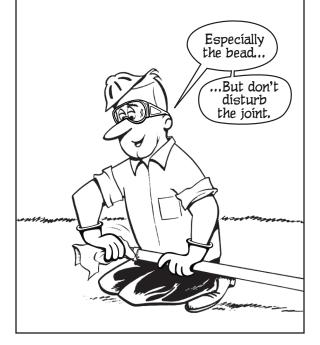
...HOLD FOR ABOUT 30 SECONDS TO AVOID PUSHOUT



*refer to large diameter solvent welding video at www.weldon.com/technical_support



WIPE OFF EXCESS CEMENT





WAIT BEFORE DISTURBING

For recommended set times, see set schedule on page 22.



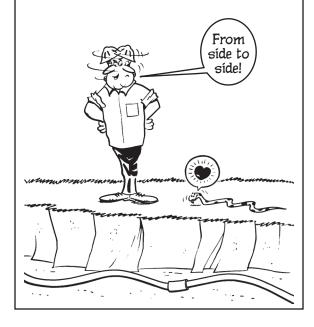


PUT IN DITCH CAREFULLY





SNAKE PIPE IN DITCH





SHADE PIPE WITH BACKFILL





CURE PERIOD WILL DEPEND ON...

- 1 Thickness of cement
- Pipe Diameter
- 3 Air temperature / humidity
- Dry joint tightness



For recommended cure times, see cure schedule on page 22.



REMEMBER...



LONGER SET AND CURE PERIODS are required for larger diameter pipe, slow-drying cements, loose fit joints, chemical applications and in damp or humid weather conditions.



BRING PIPE TO ABOUT IT'S OPERATING TEMPERATURE BEFORE TESTING & BACKFILLING



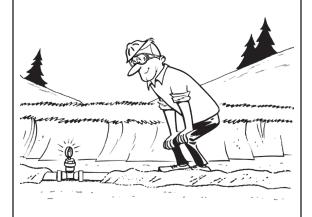
This can be done by...

- 1 Shading with backfill
- Filling with water at about operating temperature
- 3 Letting it stand overnight



HYDROSTATIC PRESSURE TEST

...with water only, do not test with compressed air or gas.



CONGRATULATIONS! If you've followed instructions correctly, the joints are solvent welded and the piping system is ready to use. Pat yourself on the back for a job well done.



THINK SAFETY, WORK SAFELY.



- Cement and primer are flammable.
 Keep them away from sparks, heat,
 flame and other sources of ignition.
 - Do not smoke, eat, or drink when using solvent cement and primer.
 - Work in well ventilated area. Avoid breathing the solvent vapors. Wear NIOSH approved respirators when working in area with inadequate ventilation.
 - Wear proper protective equipment (safety glasses and gloves).
- Keep container closed when not in use.
 Store cement and primer according to directions on the label.
- When in doubt, read the product SDS and technical data sheet for more information.

DANGER: Weld-On® products must never be used in PVC and CPVC systems being used or tested by compressed air or gases.



AVERAGE INITIAL SET SCHEDULE FOR WELD-ON® PVC/CPVC SOLVENT WELDS*

| Temperature Range | Pipe Sizes ½" to 1¼" | Pipe Sizes 1½" to 2" | Pipe Sizes 2½" to 8" | Pipe Sizes 10" to 15" | Pipe Sizes 15" + | | |
|----------------------|-------------------------|-------------------------|-------------------------|--------------------------|---------------------|--|--|
| 60°-100°F | 60°-100°F 2 minutes | | 30 minutes | 2 hours | 4 hours | | |
| 40°-60°F | 5 minutes | 10 minutes | 2 hours | 8 hours | 16 hours | | |
| 0°-40°F 10 minutes | | 15 minutes | 12 hours | 24 hours | 48 hours | | |

Note: Initial set schedule is the necessary time to allow before the joint can be carefully handled. In damp or humid weather allow 50% more set time.

AVERAGE JOINT CURE SCHEDULE FOR WELD-ON PVC/CPVC SOLVENT WELDS*

| Relative Humidity 60% or less | Cure Time Pipe Sizes ½" to 1¼" | | Cure Time Pipe Sizes 1½" to 2" | | | Time Sizes to 8" | Cure Time Pipe Sizes 10" to 15" | Cure Time Pipe Sizes 15" + | | |
|---|--|----------------------------|--------------------------------------|----------------------------|---------------------|----------------------------|---------------------------------------|----------------------------------|--|--|
| Temperature range during assembly and cure periods | up to 160 psi | above 160 to 370 psi | up to 160 psi | above 160 to 315 psi | up to 160 psi | above 160 to 315 psi | up to 100 psi | up to 100 psi | | |
| 60°-100°F | 60°-100°F 15 min 6 hrs 40°-60°F 20 min 12 hrs | | 30 min | 12 hrs | 1½ hrs | 24 hrs | 48 hrs | 72 hrs | | |
| 40°-60°F | | | 45 min | 24 hrs | 4 hrs | 48 hrs | 96 hrs | 6 days | | |
| 0°-40°F | 30 min | 48 hrs | 1 hour | 96 hrs | 72 hrs | 8 days | 8 days | 14 days | | |

Note: Joint cure schedule is the necessary time to allow before pressurizing system. In damp or humid weather allow 50% more cure time.

AVERAGE NUMBER OF IOINTS/OT. OF WELD-ON WELD**

| Pipe Diameter | 1/2" | 3/4" | 1" | 11/2" | 2" | 3" | 4" | 6" | 8″ | 10" | 12" | 15" | 18" |
|------------------|------|------|-----|-------|----|----|----|----|----|-----|-----|-----|-----|
| Number of Joints | 300 | 200 | 125 | 90 | 60 | 40 | 30 | 10 | 5 | 2-3 | 1-2 | 3/4 | 1/2 |

^{**}These figures are estimates based on our laboratory tests. Due to the many variables in the field, these figures should be used as a general guide only.

^{*}These figures are estimates based on testing done under laboratory conditions. Field working conditions can vary significantly. This chart should be used as a general reference only.

WELDXON

WE TAKE IT SERIOUSLY...

We hope you benefit from our lighthearted approach to a serious subject. we do take it seriously. The quality of the solvent welded joint determines the effectiveness of the plastic pipe system as a whole. For this reason, we offer data sheets, booklets, an installation video, installation training and qualification seminars as a complete educational package to those who take good joining techniques as seriously

For more information, contact us at:

Weld-On Adhesives, Inc. 455 W. Victoria Street, Compton, CA 90220 USA Customer Service: 1.800.888.8312

Technical Service: 1.877.477.8327

Website: www.weldon.com

as we do.

