

# ROADWARE 10 MINUTE CONCRETE MENDER™

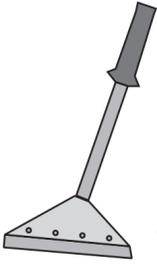
## Application Chart For Professional Use Only READ ALL DIRECTIONS CAREFULLY BEFORE USE!

Tools Recommended for  
Concrete Repair:

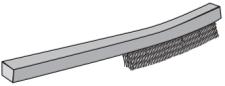
Roadware 5300 Gun. For easy dispensing of  
Roadware 300 x 300 ml Cartridges



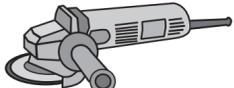
4" Taping knife or margin trowel for applying  
material and sand.



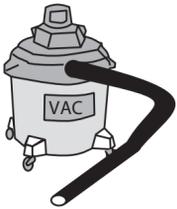
Sharp scrapper for shaving off cured material and  
sanding brick for smoothing and blending  
repairs.



Wire brush for cleaning cracks and spalls



4" Grinder with a diamond blade or twisted  
wire wheel for cleaning cracks and spalls



Shop vacuum for cleaning out dust and  
debris from cracks and spalls



30 - 40 grit manufactured silica sand. Used  
for repairing cracks and spalls. DO NOT USE  
PLAY SAND, CONCRETE SAND, BEACH  
SAND OR ANY SAND THAT MAY CONTAIN  
EXCESS MOISTURE. FOLLOW  
MANUFACTURERS SAFETY GUIDELINES  
WHEN WORKING WITH SILICA SAND.



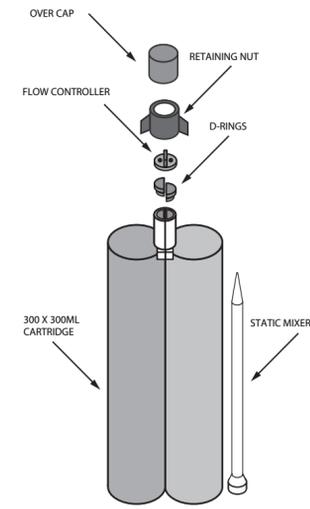
Gloves



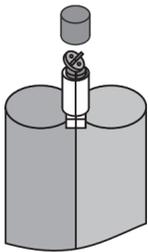
Safety Glasses

## Cartridge Assembly Instructions

Each cartridge set contains the following:

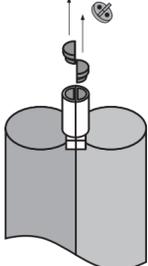


1



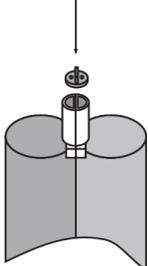
Step 1: Remove over cap. FLOW  
CONTROLLER is stowed under the overcap.

2



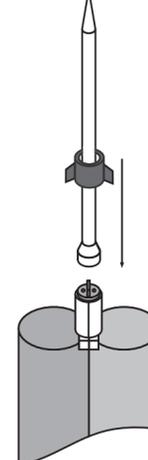
Step 2: Remove black D-rings and save.

3



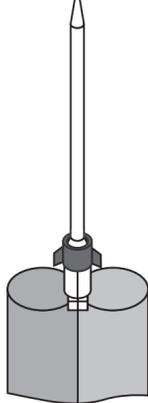
Step 3: Place the FLOW CONTROLLER on  
top of cartridge. Be careful to align material  
openings.

4



Step 4: Place static mixer over the FLOW  
CONTROLLER and secure with black  
retaining nut.

5



Step 5: Tighten firmly with hands. KEEP  
CARTRIDGE UPRIGHT UNTIL USE.

## Cartridge Start-up Procedure



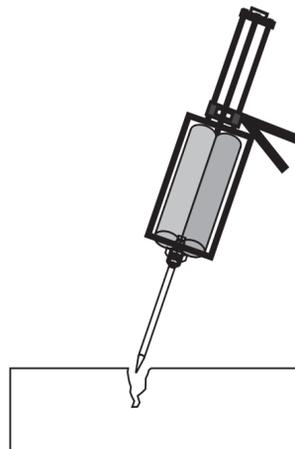
Hold cartridge upward and load into gun.  
Bleed off any air inside the cartridge by  
slightly squeezing handle and rocking the  
cartridge from side to side as needed to force  
the air bubble out through the mixer.



Immediately point mixer into a waste  
container and dispense a small amount to  
start the material mixing.

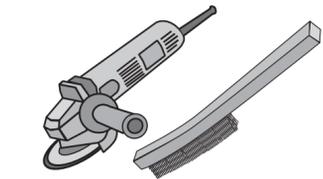


CAUTION: DO NOT POINT MIXER  
UPWARD AFTER MATERIAL IS FLOWING!  
This may cause Back-flo and clogging.



Apply material immediately with study full  
strokes of the gun.

## Crack Repair Spalled Control Joint Repair



1) Clean repair area. Remove all dirt, oils,  
and loose debris.



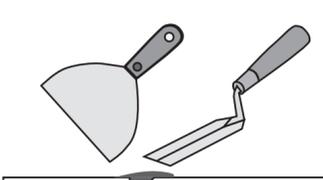
2) Remove any dust with a vacuum or  
compressed air.



3) Fully pre-wet sides and bottom of crack  
with 10 Minute Concrete Mender U.



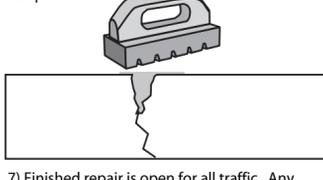
4) Immediately add silica sand and more 10  
Minute Concrete Mender U. Add enough  
material to slightly overfill the repair. Use  
enough liquid to COMPLETELY SATURATE  
THE SAND.



5) Use a margin trowel or taping knife to  
smooth and shape the sand and material  
mortar.

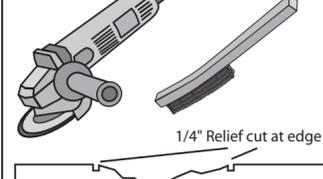


6) When material cures (turns light gray in  
color), scrape off over banding with a sharp  
scraper.

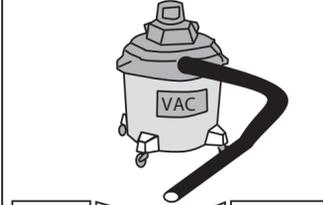


7) Finished repair is open for all traffic. Any  
staining due to over banding will quickly wear  
off or can be removed with a light sanding.

## Spall Repair



1) Clean repair area. Remove all dirt, oils,  
and loose debris. Make a 1/4" relief cut with  
grinder.



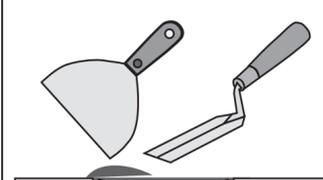
2) Remove any dust with a vacuum or  
compressed air.



3) Pre-wet entire spall with 10 Minute  
Concrete Mender U.



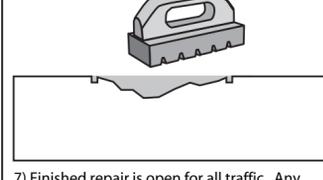
4) Immediately add 1/2" of silica sand and  
completely saturate with 10 Minute Concrete  
Mender U. Continue in 1/2" lifts. Make  
certain all of the sand is saturated.



5) Use a margin trowel or taping knife to  
smooth and shape the sand and material  
mortar.

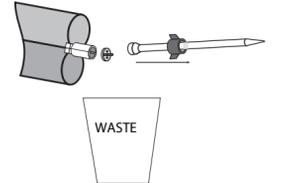


6) When material cures (turns light gray in  
color), scrape off high spots with a sharp  
scraper. Smooth and finish with a rubbing  
stone.

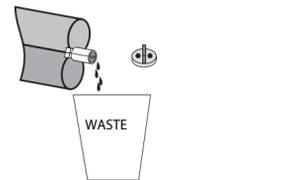


7) Finished repair is open for all traffic. Any  
staining due to over banding will quickly wear  
off or can be removed with a light sanding.

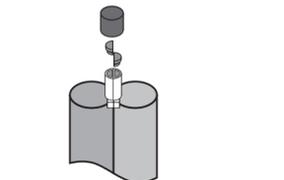
## Recapping Partially Used Tubes



Hold cartridge sideways over a waste container  
and remove retaining nut, mixer, and Flow  
Controller.



Bleed off a few drops of material to clear out any  
cured product. Clean Flow Controller and save for  
future use or replace.



Hold cartridge upright and place D-rings into the  
top ports. Place overcap on cartridge.

Store upright in a cool, dry place. Material will  
remain usable for a varying amount of time  
depending on the moisture level of the storage.  
Signs of moisture contamination are heavy caking  
and crystallization of the A-side material at the D-  
rings and the rear seals.

To reuse cartridge, follow normal start-up  
procedures.

## Trouble Shooting

Every reasonable effort is made to insure that  
every cartridge of Roadware 10 Minute Concrete  
Mender U is easy to use and trouble free. Below is  
a list of possible problems, their causes and  
suggested solutions. For more information, please  
call Roadware Technical Service at 800-522-7623.

Problem: Material does not cure.

Cause: Material was not mixed properly  
Solution: Make sure all start-up procedures are  
followed. Check for any blockage of cartridge  
openings.

Problem: Material is slow to cure.

Cause: Low ambient temperature  
Solution: This material will set in approximately  
10 minutes at 72 F. Cooler concrete and sand  
temperatures will increase cure time.

Problem: Cartridge is hard to pump or surges  
off ratio.

Possible Cause: Rear plunger is sticking. Slight  
leakage (mostly found in partially used cartridges)  
has caused the "A" (light colored) material to  
crystallize on the plunger causing sticking and  
surging.  
Solution: Carefully rim the skirt of the plunger  
seal with a small, flat screwdriver.

Possible Cause: Material has cured inside the  
static mixer or Flow Controller.  
Solution: Replace static mixer and Flow Controller  
if needed.

Problem: Cured material shows intensive  
marbling and striations.

Possible Cause: Inadequate mixing.  
Solution: Follow start up procedures carefully.  
Make sure all air pockets are bled off before  
application. Use medium even strokes when  
applying material.  
Possible Cause: Improperly placed or missing  
Flow Controller.

Solution: Make sure the holes in the Flow  
Controller restrictor line up with the openings in the  
cartridge. Hold the static mixer in place when  
securing the retaining nut to prevent the Back-flo  
restrictor from twisting.

Problem: Material foams, bubbles, or grows  
when curing.

Cause: Moisture is in contact with the material.  
Solution: Make sure sand is dry. When concrete is  
damp or green, dry with a heat gun or propane  
torch. Apply a layer straight 10 Minute Concrete  
Mender U to the area. Allow to cure and continue  
the repair.

## Clean up

Wipe tool clean with a rag before material is  
allowed to cure. Cured material may be removed  
by abrading with a wire brush or soaking in  
acetone, xylene, MEK, or epoxy thinner. USE  
EXTREME CARE WHEN WORKING WITH  
INDUSTRIAL SOLVENTS.

10 Minute Concrete Mender U is very aggressive  
and will stain exposed skin. Gloves should be  
worn to keep material from contacting skin. In the  
event of skin contact, remove immediately with an  
industrial paint and stain hand cleaner.

SEE MSDS SHEETS FOR FURTHER  
INFORMATION

## Disposal Methods

Empty cartridges may be disposed of with normal  
waste disposal methods in accordance with  
Federal, State, and local environmental control  
regulations.

Unused material is best disposed of by mixing  
equal parts of side A and side B and allowed to  
cure in a waste container. Cured material may  
then be disposed of with normal methods.

ACTION TO TAKE FOR SPILLS/LEAKS: Properly  
protected personnel should contain spill. Ventilate  
area, cover spill with sawdust or other absorbent  
material. Scoop and place in open container and  
treat with decontamination solution (93% water, 5%  
ammonia, 2% detergent). Leave open in a  
ventilated area for 24 hours.

DISPOSAL METHOD: Bury or landfill  
decontaminated waste in accordance with Federal,  
State, and local environmental control regulations.

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