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Presentation

**Weld-Max A
Weld-Max W**



Weld-Max A

What does it do?



Weld-Max A provides:

- ④ A protective ceramic coating on MIG MAG welding equipment.
- ④ 8 hour trouble free operation without the need for cleaning
- ④ Cleaner welds (better gas stream and therefore continuous and perfect weld)
- ④ Cost savings
 - ④ Tip and shrouds last 5 times longer
 - ④ Increased production
 - ④ No reaming equipment needed for robot welding

Weld-Max A

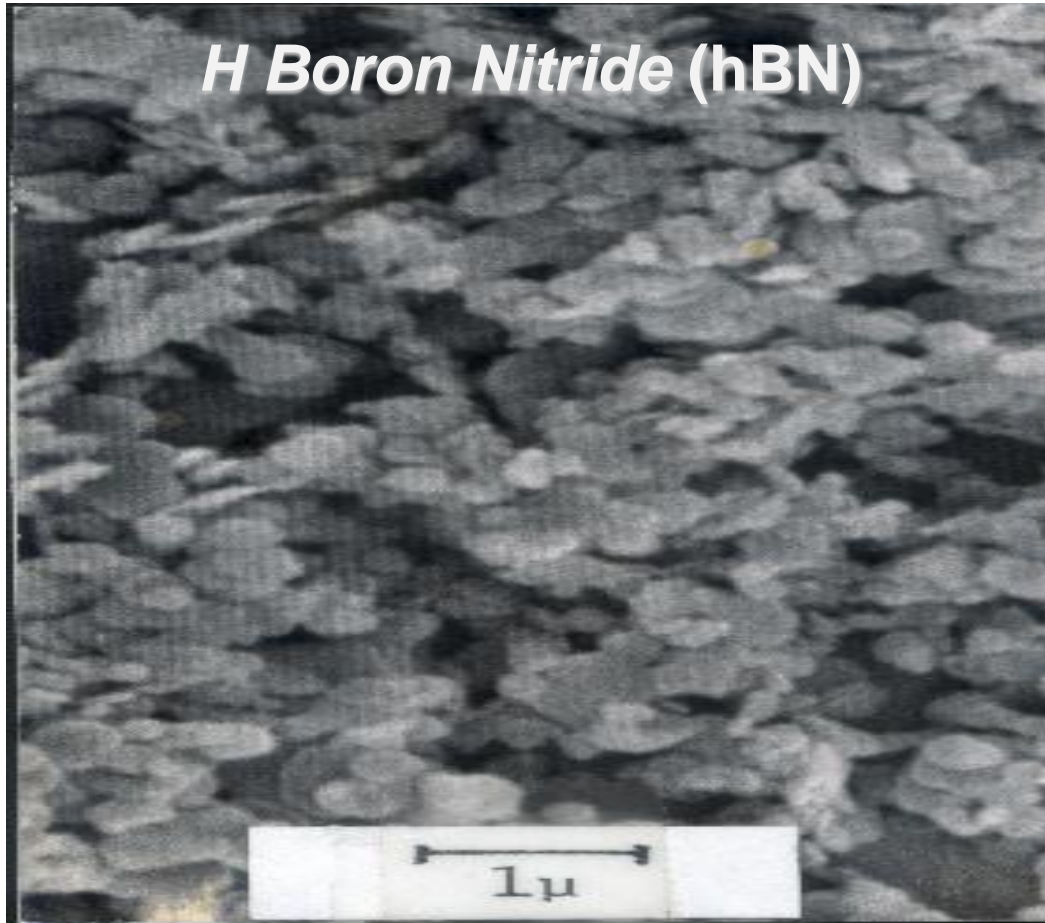
How does it work?



- ✔ Weld-max A is a dispersion of hexagonal Boron Nitride in a rapidly drying solvent
- ✔ hBoron Nitride is a white, dry, lubricating, non-stick ceramic which will withstand $>1.000\text{ }^{\circ}\text{C}$
- ✔ When dried, our special resin bonds the hBN to the metal surface
- ✔ The hBN rich dry coating of Weld-max A prevents molten metal (weld spatter) sticking to the surface

Weld-Max A

How does it work?



This picture shows the lamellar shape of the tiny hBN platelets used in Weld-max A

It works a bit like ceramic Teflon but can resist much higher temperatures

If a spatter sticks to the surface of the hBN, the spatter pulls off with ease as the platelets "shear" (think of a deck of playing cards)

Weld-Max A

Why use it?



1. During the Mig Mag welding process molten metal 'spatters' hit the end of the welding torch (and most other things close by)
2. This very hot molten metal will stick to the outside and the inside of the torch
3. The spatters build up on the inside of the torch reducing the flow of welding gas, and damage the outside reducing the working life of the torch
4. Traditionally the welding process is stopped while these "consumables" are reamed out to remove the spatter

Weld-Max A

Why use it?



This reaming process damages the torch shortening its working life;

Additionally, this process stops production which is expensive!

Weld-Max A

Why use it?



So...

If you can stop the spatter from sticking there is no need to ream and no need to interrupt production.

This saves lots of money!

Weld-Max A does exactly this....

Weld-Max A

It works!



Welding torch
coated with
Weld-Max A



Non coated



Weld-Max A
Coated

Weld-Max A

What to replace?



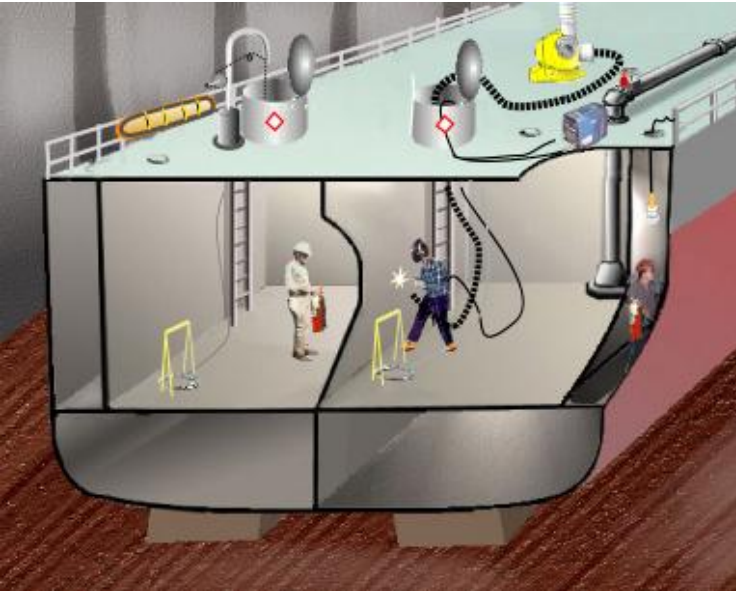
The traditional method to attempt to stop spatter sticking is to spray the torch with an 'anti-spatter' fluid

They are either oil or soap based (low temp fluids) applied by dip or spray

They do not last very long so the welding process has to be stopped frequently for re-application.

Weld-Max A

Where is Weld-Max A used?



- ✔ All MIG-MAG welding equipment
- ✔ Fixtures and fittings

Weld-Max A

How and where to use



- ④ Welding companies
 - ④ Shipyards, offshore, pipeline welding companies
 - ④ Automotive, truck, train manufacturing
 - ④ Welding robots (furniture, automotive, etc)
- ④ Welding equipment suppliers
 - ④ Additional sales (service article)
 - ④ Private label possible
- ④ Welding consumables suppliers
 - ④ Additional sales (service article)
 - ④ Private label possible

Weld-Max W

Another opportunity



Weld-Max A can be used to coat “everything” and will prevent / reduce build up.

However due to the large areas involved some customers regard the cost to be prohibitive.

Our alternative is Weld-Max “W”
 (“W” for water based)

Weld-Max W

Another opportunity



A unique product

As well as the welding torch, spatters stick to everything they hit.

The surrounding work area, including the jigs used to hold the piece being welded, get a build up of spatter which has to be ground or chiselled off.

This is an unpleasant and time wasting job.

Weld-Max W

Another opportunity



Weld-Max W is a bulk product available in 250 ml containers,
(Weld-Max A is in an aerosol)

It contains the same hBN as its sister but a different binder.
Being water based it takes a little longer to dry. But, once dry it is
an extremely tough coating

It can be applied by brush, spray or dip



- ④ Weld-Max W:
 - ④ A protective ceramic coating for fixtures and fittings
 - ④ Versatile application methods
 - ④ Spray, brush or dip
 - ④ Cleaner working areas
 - ④ Reduced clean up times
 - ④ Reduced damage
 - ④ Longer lasting fixtures
 - ④ Environmentally friendly
 - ④ Unique to VesCoLub

Weld-max In Action



To see more about Weld-Max A in action, please also view our
YouTube Presentation.

