



A Driver's Guide to AdBlue[®]



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A Driver's Guide to AdBlue®

Have you heard about a product called AdBlue®?

Have you bought a machine requiring AdBlue?

Whether you have or not, it is likely you will soon be driving machinery that will require this operating fluid called "AdBlue". Here we explain what it means to you as an operator of this type of machinery.

What is AdBlue and SCR?

AdBlue is a high purity, manufactured urea solution used with diesel engines which have Selective Catalytic Reduction (SCR) technology. SCR uses after treatment to reduce the harmful nitrogen oxide (NOx) emissions from exhaust gases. If you have an SCR machine that requires AdBlue you will need to dispense AdBlue into an existing separate tank already fitted to your vehicle. AdBlue is not a fuel nor is it mixed with fuel.

What is Air1®?

Air1 is AdBlue commercialized by Yara, the world's largest AdBlue producer. It is also the world's leading brand of AdBlue, used since 2006 by millions of heavy duty vehicles around the world. Air1 is the quality product which has been selected by Bobcat in Europe to help guarantee engine performance as well as low emissions level. By selecting Air1, Bobcat also ensure that, wherever you are located in Europe, your dealer will be able to supply you with a reliable source of quality AdBlue.

Why do I need AdBlue?

Since 1999 exhaust emission limits have been lowered to help reduce the amount of harmful toxic gas (including nitrogen oxide (NOx)) that is released into the air. Nitrogen oxides are some of the main gases responsible for acid rain and the shrinking ozone layer.

Bobcat has chosen a range of engines to comply with EU legislation Stage IV (US Tier4 final). The technology called SCR (Selective

Catalytic Reduction) is a proven system at reducing NOx emissions from exhaust gases to harmless steam and nitrogen.

How do I know if I need AdBlue?

Your local Bobcat dealer should advise you at the time of purchase about your new Bobcat machine and if it needs AdBlue. He should also advise how you can buy it and what options you have.

How does it work?

AdBlue is not involved in the engine combustion. The SCR system is external to the engine. AdBlue is automatically sprayed into the exhaust gas going through a catalyst, which creates a chemical reaction that converts nitrogen oxide (NOx) to harmless steam and nitrogen which are emitted from the exhaust pipe.

On the machine, AdBlue is contained in a separate tank usually next to the diesel one. You only need to refill the AdBlue tank when the gauge indicates that the tank is nearing empty.

How much AdBlue will I need?

The AdBlue consumption will be on average 5% to 8% by volume of diesel consumption.



Is AdBlue harmful?

AdBlue is not harmful neither for humans nor animals. If you get it on your skin or clothes, rinse with plenty of tap water as it might irritate. It is not poisonous, but if ever consumed by accident, drink water and consult a doctor.

AdBlue is safe to handle and use; it is not explosive, flammable, toxic, or subject to any hazardous product regulations.

How do I store AdBlue?

You'll be able to store AdBlue using the standard delivered packaging. It includes different size containers from 10 liter Cans, 210 liter Drums, up to 1000 liter Containers delivered on an integrated pallet (IBC). Or if you are equipped with a large AdBlue storage tank, bulk delivery is available. Packaged AdBlue should ideally be stored indoors, ie between 0 – 30°C, out of direct sunlight, and properly sealed when not in use. The storage area must be clean from dust or any other product to keep AdBlue away from contamination especially during operations such as machine refill which should be direct from storage to vehicle using AdBlue dedicated pumps.

Will I reduce my costs when using AdBlue?

Implementing SCR technology with AdBlue from Air1 is certain to yield a significant cost-cutting effect in terms of fuel consumption.

Where can I buy AdBlue from Air1?

Air1 is packaged in 1000L Intermediate Bulk Containers (IBC), 210L Drums or 10L Cans and is available through your local Bobcat dealer. Just contact them for more information about collection options, or deliveries direct to your door for absolute convenience. AdBlue from Air1 can also be delivered in bulk for larger quantities.

Why should I be careful about which AdBlue I use?

It is important that you only purchase AdBlue from a reputable supplier in dedicated AdBlue sealed packaging. Contaminants from unsealed packages will cause problems to your SCR system; AdBlue must remain at its high specification state to be compatible with your SCR system. Using a mix of any other type of urea will cause damage to your catalyst and SCR injector systems. Repairs due to poor AdBlue[®] quality will not be covered by your warranty. It is imperative to respect the investment that has been made in the purchase of the machine you are driving. It is also

important not to use old diesel/oil/other containers to transfer AdBlue as these maybe contaminated with small amounts of fuel/oil/lubricants which may damage the SCR system. Only use AdBlue pumps to dispense – do not use funnels or jugs.

What makes Air1's AdBlue so special?

Yara's production and distribution facilities guarantees that Air1 will be protected from impurities and thus will not harm your vehicle's catalyst. Other less pure AdBlue potentially can damage your SCR catalyst irreversibly. You will be forced to replace your catalyst at your expenses if this happens.

Choosing Air1 from your local Bobcat dealer brings you reliability and reassurance!

For further information please contact your local Bobcat dealer or your local Air1 team at www.air1.info





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