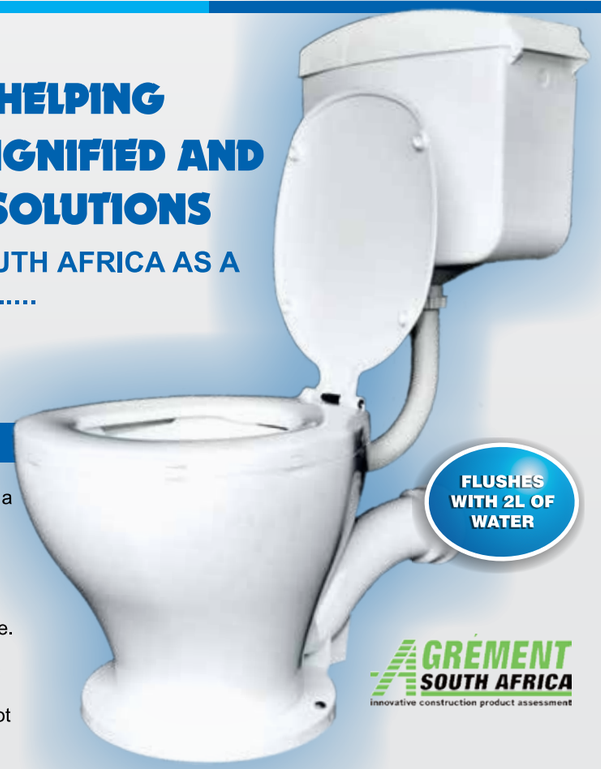
Envirosan
SANITATION SOLUTIONS

A PROUDLY BLACK OWNED ENTERPRISE

EaziFlush HELPING MUNICIPALITIES PROVIDE DIGNIFIED AND SUSTAINABLE SANITATION SOLUTIONS

EFFECTIVELY USED THROUGHOUT SOUTH AFRICA AS A SOLUTION FOR BUCKET ERADICATION.....

FOR THE SAME PRICE AS A VIP SYSTEM !



BRIDGING THE GAP IN SANITATION

When properly designed, built and maintained, the VIP provides a decent basic level of sanitation, However most people prefer a higher level of sanitation, with the flushing toilet being the most desired.

The problem with conventional flush toilets is that they require a large amount of water, which is not always available or affordable. Coupled with the excessive amount of water used to flush the toilets are the on-going leaks which place unnecessary pressure on our already water scarce country. VIP toilets, whilst, not requiring water to operate, have inherent problems as they do not have a water seal, can smell extremely bad and attract flies. Thus, the majority of households prefer to have the toilets constructed a significant distance away from the homestead which in turn creates a safety factor for children, the elderly and women wanting to use the toilet when it is dark.

In a VIP scenario the pit is directly below the top structure resulting in communities using the pit as a solid waste disposal site and consequently the pits fill up much faster. When the pits are full, emptying is a messy, unpleasant and expensive operation.

RETROFIT EXISTING FULL VIP WITH EAZIFLUSH SANITATION SYSTEM AND POLYMER DOOR

INSTALLATION OF NEW PRECAST STRUCTURE WITH EAZIFLUSH SANITATION SYSTEM AND POLYMER DOOR

RETROFIT EXISTING UDDT / DOUBLE VIP UNIT WITH EAZIFLUSH SANITATION SYSTEM AND POLYMER DOOR, WHILST MAINTAINING SECONDARY CHAMBER AS A BACK UP

The pour flush toilet was designed to have an off-set pit which is not directly below the structure, making the unit safe and allows easier access when emptying is required. The Eaziflush system requires no mains water connection as it flushes manually by pouring as little as 2 litre of water **(or grey-water)** into the toilet bowl, compared to 9 litres or more of potable water for a conventional toilet. In a dense urban context, the pour flush toilet may be installed closer to the user or inside the house. The technology can assist with the hygienic disposal of grey-water and, on a wider scale, has the potential to reduce the demand for potable water and alleviate pressure on the over stressed sewer networks. **The Eaziflush Sanitation System is an integral off grid sanitation solution.**

PROUDLY MADE IN SOUTH AFRICA

THE EAZIFLUSH REVOLUTION

Our patented Eaziflush system can easily be adopted for use in all areas, ranging from rural to urban, including areas with water supply as well as areas with limited or restricted water supply. The Eaziflush system will revolutionise the way we use the toilet and allow Municipalities to roll out dignified and sustainable sanitation solutions that are well received by all stakeholders. The unit can either be used as a pour-flush application or as a conventional cistern flush unit. The Eaziflush has been developed over 5 years of research, prototyping, testing and is now on national roll out. The pour-flush style of sanitation is extensively used throughout South East Asia with a proven track record over the past 50 years.

The direct savings of this reduced flushing feature is not only a benefit to the end user, but also to the Municipality. Reduced water usage allows for the Eaziflush to be used with a leach pit containment principle, eliminating strain on the Municipal Treatment Plants. The added advantage is that the leach pit will fill significantly slower than that of a conventional VIP (up to 3 times slower). This allows the use of smaller/ shallower leach pit to be constructed which also makes it safer for use and emptying.

RATIONALE

- **Eaziflush unit (6 occupants, 5 flushes per day) = 60L required**
- **Conventional 9L unit (6 occupants, 5 flushes per day) = 270L required**

OFFSET LEACH PIT SAFE & EASILY ACCESSIBLE

The advantage of the Eaziflush unit can clearly be seen in terms of aiding water conservation in Southern Africa compared to conventional water borne sanitation systems, even in the absence of using grey water to flush the system.

Potable water saving used for flushing the toilet is in excess of 75 000L of water per year, per household. If this is multiplied by the number of households in SA (estimated at 8.4m), we are looking at a potential saving of 630 000 000 000L of water per year.

RURAL, PERI-URBAN AND /OR URBAN COMPATIBILITY

For outlying rural areas, the Eaziflush unit can be designed to feed into a leach pit, septic tank, bio-digester or similar on-site / off grid treatment facility. For peri-urban areas it can be designed to feed into a septic tank or further into a bio-digester. For urban areas, the Eazifush can feed into a conventional sewer system. The Eaziflush can be used in all environments and be adapted to work with all sanitation treatment / containment facilities currently on the market.

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