



Waterproofing System for Basements

Presented by Hussain Zulfiqar

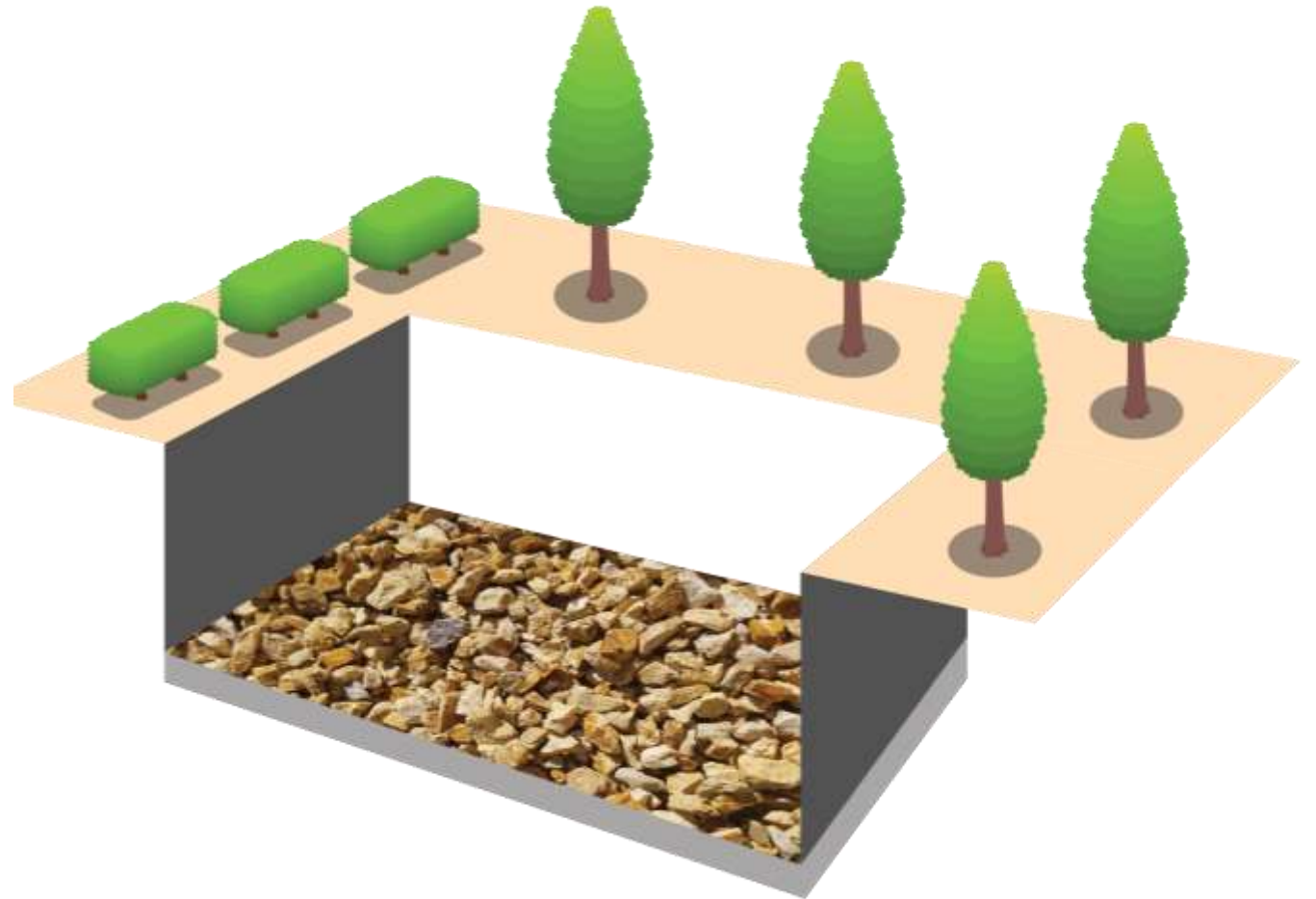
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Why is Concrete underground tank waterproofing important

A concrete water tank or reservoir is a traditional water storage system constructed from strong and long-lasting material—that is, concrete. If maintained properly, concrete can keep the stored water safe from several contaminants, bacteria, and pathogens. Ressichem has a variety of products that can ensure a long-lasting underground concrete water tank. These products are to be applied in a systematic way to ensure proper long-lasting performance.

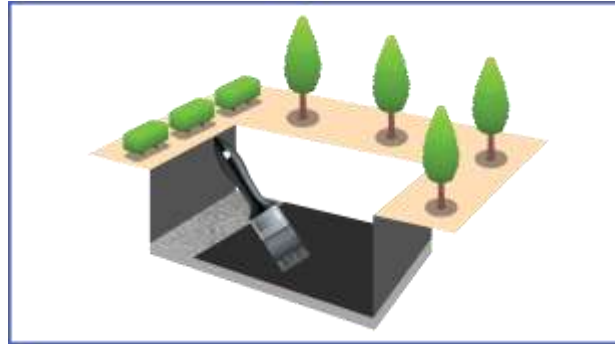
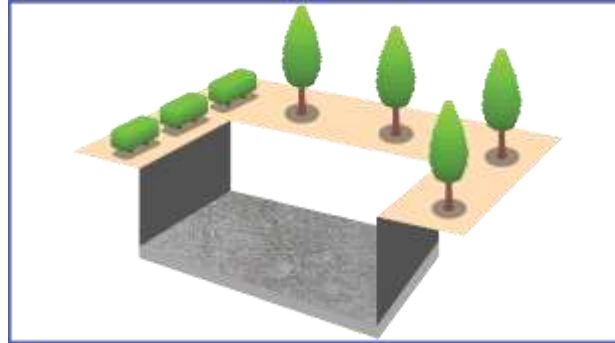
Stone Soiling and Lean Concrete

Once the excavation of the ground has been done, it is important to constantly dewater the area and make sure that the area where the underground tank is to be constructed is kept dry. Once the excavation has been completed, stone soiling is done after which lean concrete is laid.



Step1

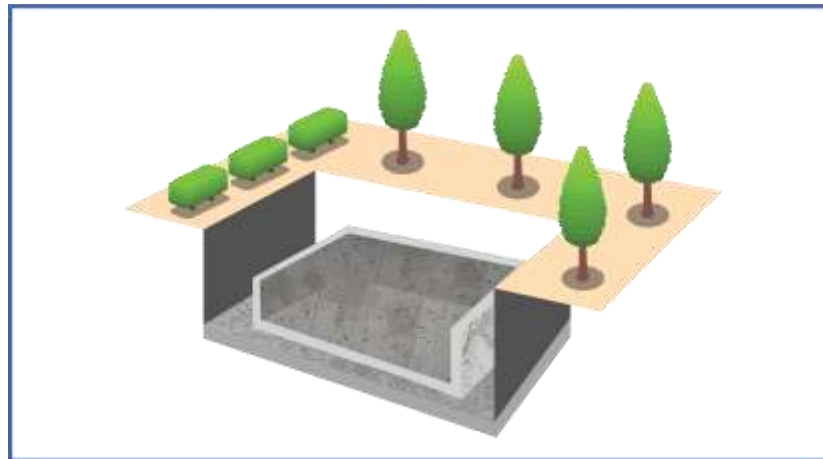
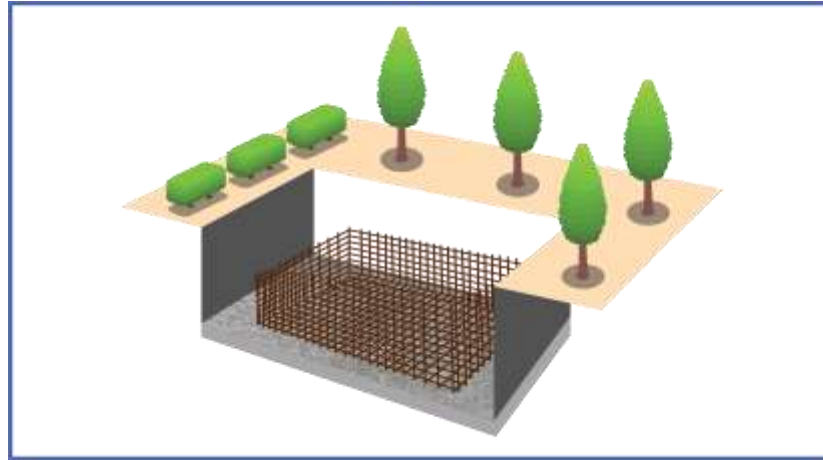
Protection of Lean concrete with Water Guard 491



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Step 2

Addition of Max Flo
integra 3 (powder)
Admixture in raft and
retaining wall concrete.



Step 3

Application of Ressi
Swell Bar Pro 60
(Swellable bar) in the
retaining wall joint.

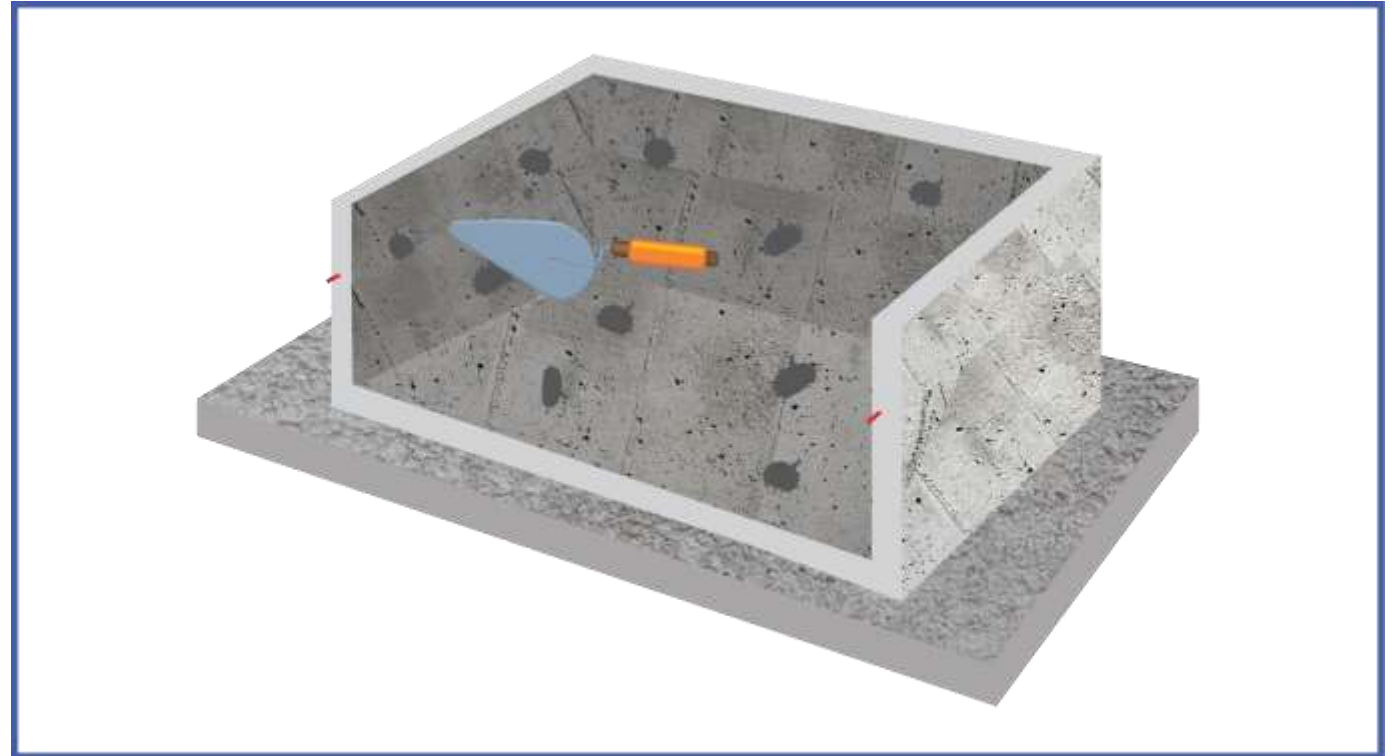


RESSI 
SWELL BAR PRO 60
Swellable bar for sealing concrete joints

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Step 4

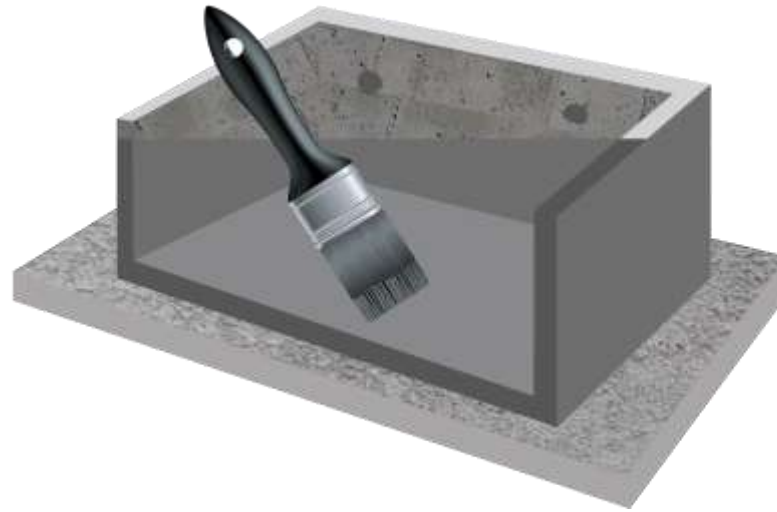
Repairing of all the concrete defects using Patch 365 Plus.



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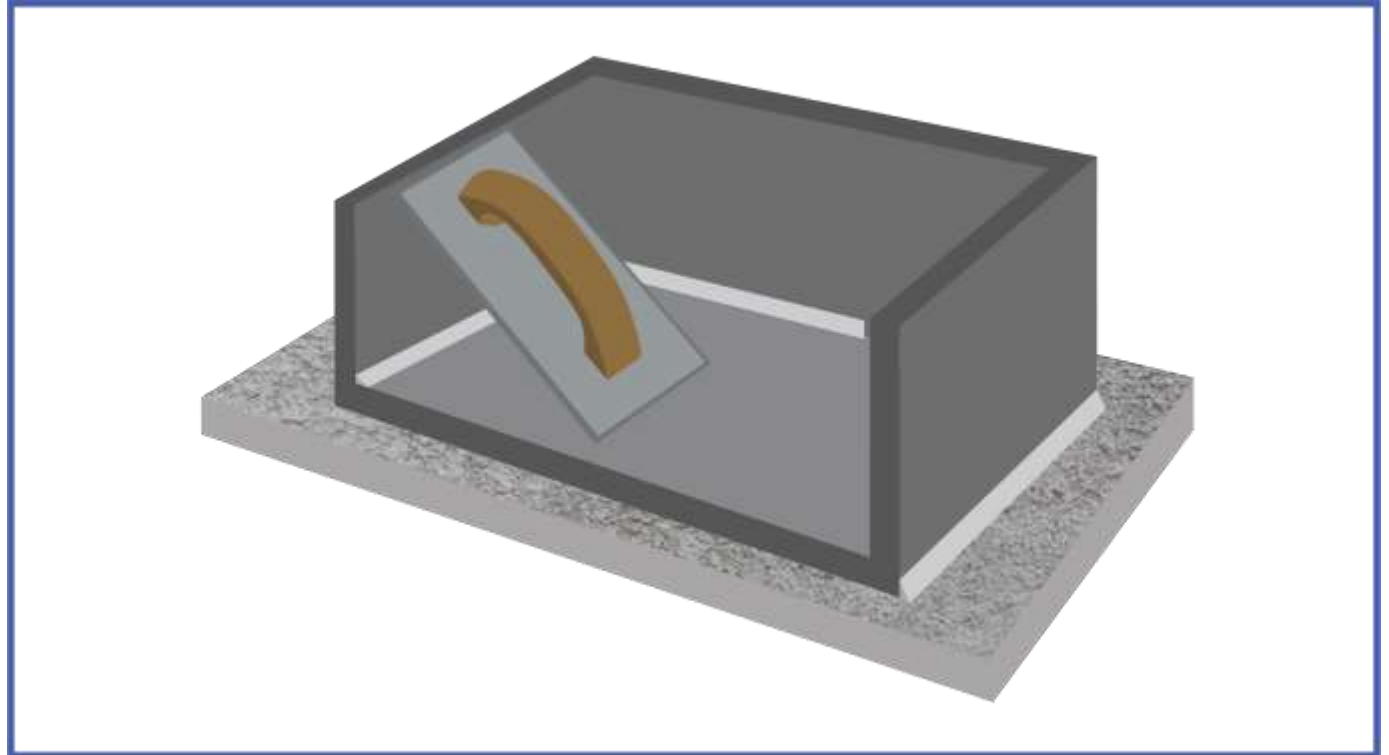
Step 5

Application of **Water Guard Crysta Coat 101** over the surface of the concrete both internal and external.



Step 6

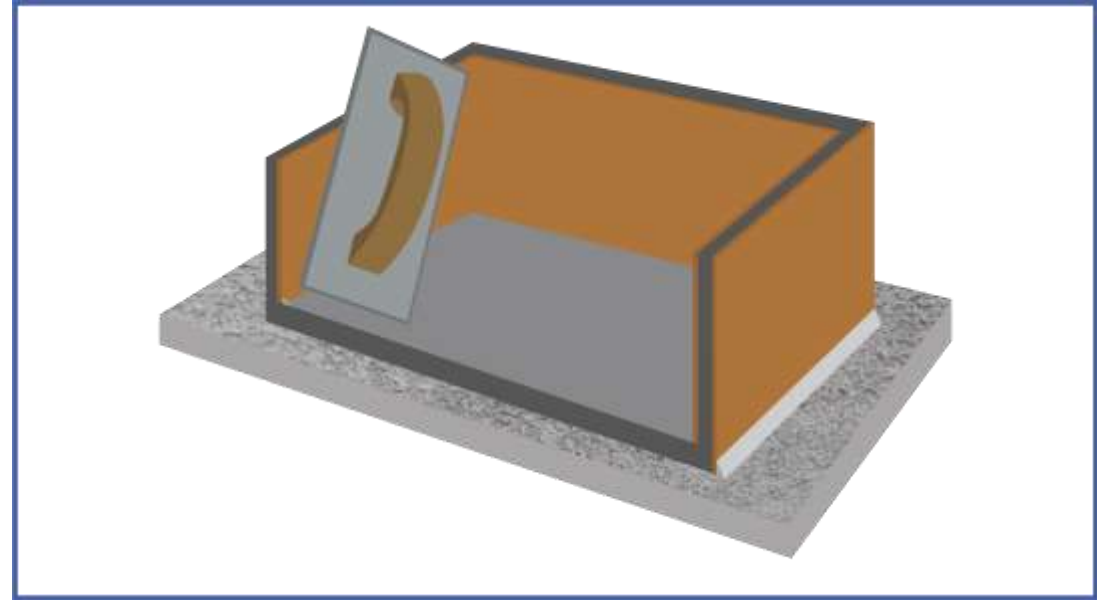
Making external and internal chamfers between the raft and the retaining walls using Patch 365 Plus.



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Step 7

Plastering of all the areas of the Underground Tank with the addition of **Ressi SBR 5850** and **Silmix** all over the concrete internally and externally.



RESSI
SBR 5850
STYRENE BUTADIENE RUBBER BASED BONDING
AID & ADDITIVE FOR CONCRETE AND MASONRY
(HIGH SOLID CONTENT)

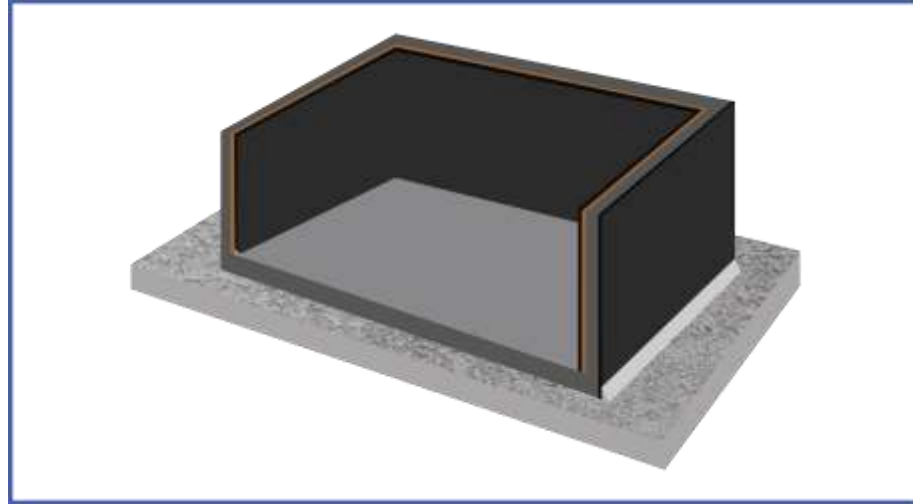


SILMIX
WATERPROOFING ADMIXTURE FOR
PLASTER AND SCREED

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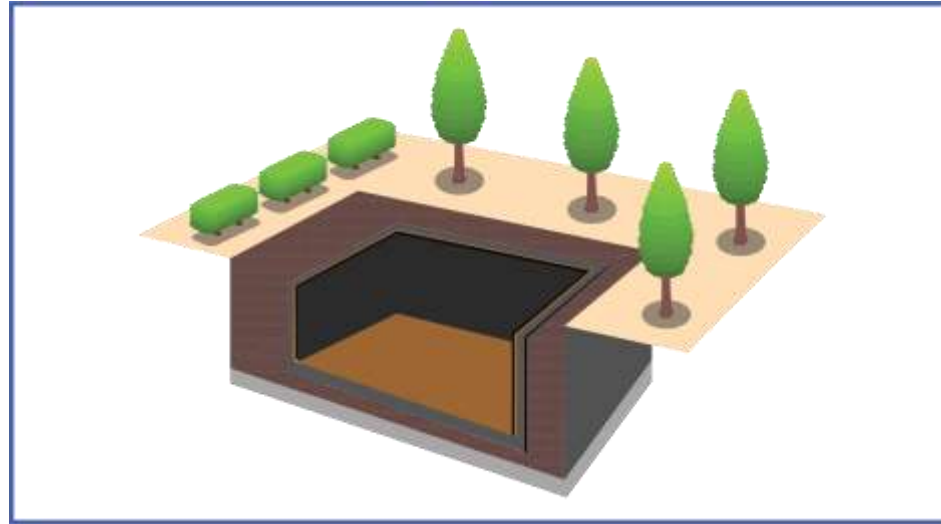
Step 8

Application of **Water Guard 491** on the external and internal plastered surface of the Underground tank.



Step 9

Final inspection and
back filling.



A Durable maintenance free system for the waterproofing of Underground tanks.



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Thank You

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