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WHAT IS SMR?

Structural Material for Reinstatement as per the SROH 2010 3RD Edition

A cement based proprietary binder

COSHH = Irritant



HOW SMR WORKS

SMR is a cementitious binder that when mixed with spoil uses the free moisture present to start a re-action which results in a hig quality structural re-instatement material being created. To achieve this SMR has three properties:

- Dries out and stabilises excess moisture for optimum compactability
- Bonds soil particles increasing its density
- •Strengthens the soil by as much as 600%



LANDFILL DIVERSION

By the addition of SMR Proprietary Binder into the recycling process we are able to fully recover all the waste back into superior recycled backfill materials.

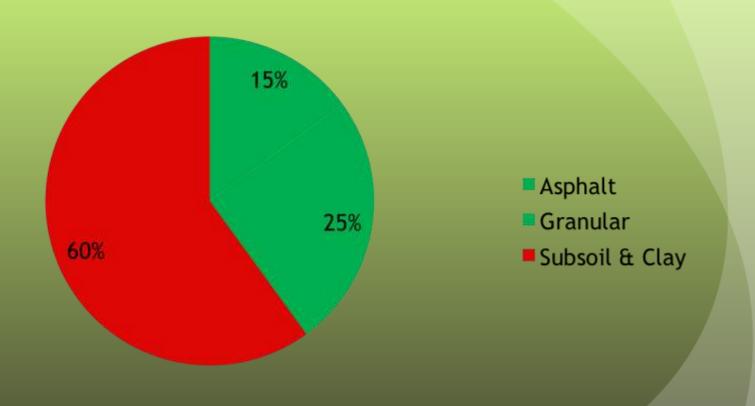
Compare this with traditional recycling centres which can only typically recycle 50%-60% of your waste. Therefore, because the addition of SMR Proprietary Binder enables our recovery rates to be vastly higher than traditional methods, our customers are safe-guarded against the constant increase in landfill and disposal prices.

"Due to future increases in landfill tax, lack of landfill sites and consumer/ public interest in environmental concerns, I would recommend the use of SMF/ SMR. We could potentially recycle 100% of our site spoil by using a soil stabiliser, without it only around 45% can be reused. This method also helps towards our target to reduce waste".

Morgan Est Reflective Report – Emma Swindale.



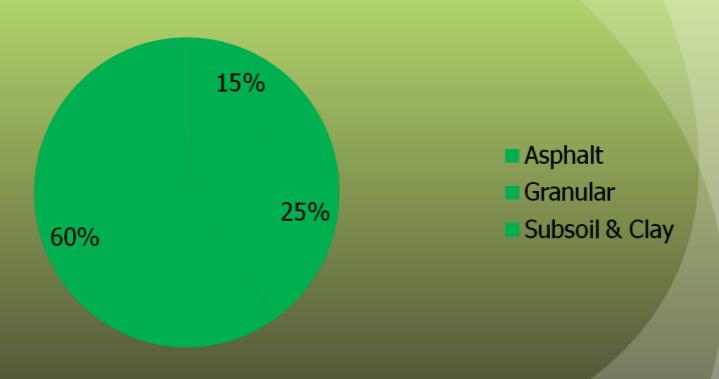
TRADITIONAL RECYCLING: UTILITY WASTE





SMR RECYCLING: UTILITY WASTE

Utility Waste Segment





A SUPERIOR REINSTATEMENT

- ✓ COMPRESSIVE STRENGTH 2N/MM2+
- ✓ CBR GENERALLY IN EXCESS OF 60%+
- ✓ NO PLUG AND BEAM EFFECTS





APPLICATION 1: HAND-MIX

SMR Hand-Mix is typically used on small excavations (<2 square metres). This method of using the SMR product allows a small excavation to be fully reinstated within 2 hours. The process involves one utility crew carrying out the following steps:

- Arrive at site and put out Chapter 8 signing and guarding
- Excavate
- Mix in SMR with the excavated soil
- Repair or install the service
- Backfill with SMR mixed soil
- Reinstate using permanent cold lay material
- Take down Chapter 8 signing and guarding
- Leave site
- ..\..\..\SMR\SMR videos\SMR Hand-Mix Video March 2010\SMR Hand-Mix BBUSL March 2010.mpg
- ..\..\SMR\Hand-Mix\SMR Case Study 3 Hand-Mix.pdf
 ..\..\SMR\Hand-Mix\SMR Trial Results Sept 2013 Hand-Mix BBUSL Southern Water.pdf

APPENDIX A9 SIGN OFF: HAND-MIX



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APPENDIX 9 TRIAL (HAND MIXED ONLY) REPORT ON ALTERNATIVE REINSTATEMENT MATERIALS (ARM'S)

FINAL REPORT/RECOMMENDATIONS

Test Report: S/09/095/PW

Report Author: Mr. A.J. Menezes

Signatories for Approval:

Mr. John Mollart

Mr. Vernon Silcock



t alternative

OTHER SMR METHODOLOGIES

SMR Hub Recycling Facilities

SMR Mobile Batching Plant

SMR Hub Recycling Centres



SMR Mobile Batching Plant





Summary

- Time efficient
- Reduction of carbon footprint
- No landfill costs
- No quarried aggregates
- Reach recycling targets
- Meet your KPI's
- A superior performing product





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