

*Innovation from Japan*  
**CONCRETE TECHNOLOGY**

**“Repair of Concrete”**



**POWER SELF HEALING  
TECHNOLOGY**

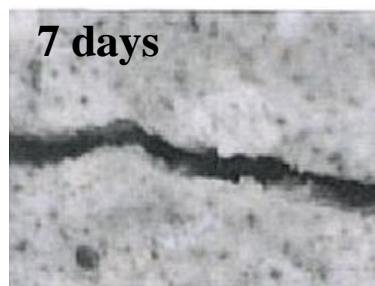


**MUI International**

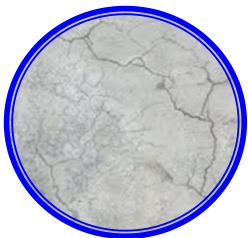


# Self-healing of Concrete

There has been growing interest in self-healing crack repairs using “inorganic” materials, which is more cost-effective and durable than any organic repair materials (epoxy or urethane). When concrete experiences cracks, whatever the cause, it heals by itself using the remaining anhydrous cement existing within the concrete.



## Applications of Self-healing Technology



Dry& Moist  
Cracks



Water Leakage



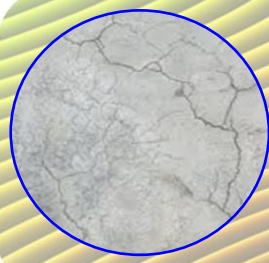
Crack-Free  
Patch Repairs



Oil-Water  
Leakage



Water Seepage



# Dry and Damp Cracks Repair

**PowerCleaner**

**PowerHealing L100&L200  
or PowerPutty**

**Crack Width < 0.3 mm**

Minor Cracks



<Before>



<After>

Large Number of Cracks



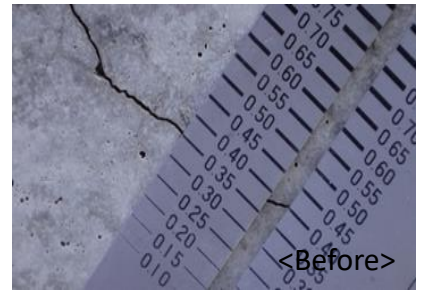
<Before>



<After>

**PowerJet**

**Crack Width 0.3 - 3 mm**



<Before>



<After>



**PowerCleaner**



**PowerHealing L100&L200**



**PowerPutty**



**PowerJet**



# Water Leaking Crack Repair



## PowerHealing L100&L200

Crack Width < 0.3 mm

Initial



After Injection  
(14 days)



After Injection  
(28 days)



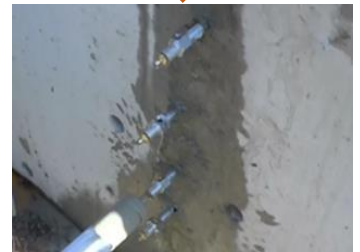
## PowerJet-W

Crack Width 0.3 - 3 mm

Water Leakage



Injection



Stop leakage  
in 1 minute



PowerHealing L100&L200



PowerJet-W



# Self-Healing (Crack-Free) Patch Repairs

Patching

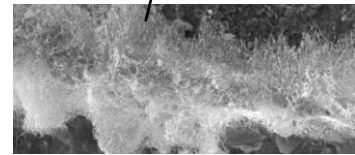
**PowerRepair-P**

Patching in Sulphur-  
Exposed Environment

**PowerRepair-S**

Grouting

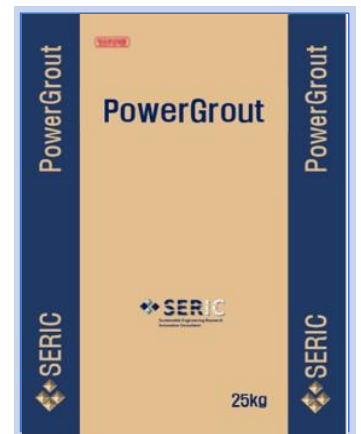
**PowerGrout**



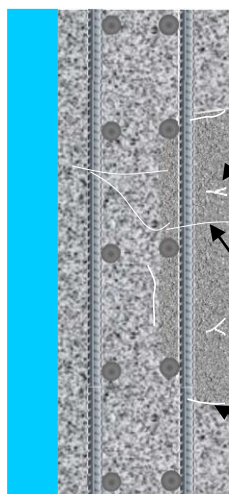
**PowerRepair-P**



**PowerRepair-S**



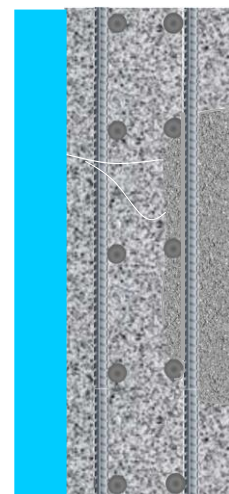
**PowerGrout**



Shrinkage crack

Reflection crack

Disbonding



After Self-Healing





# Oil-Water Leakage

## Steel Rolling Mills or Plants (Fire Hazard)

Leakages of water, water-oil emulsions, water-glycol solutions and petroleum based solution

### PowerHealing L300, L400 & L500

Crack Width < 0.3 mm



Black Liquid



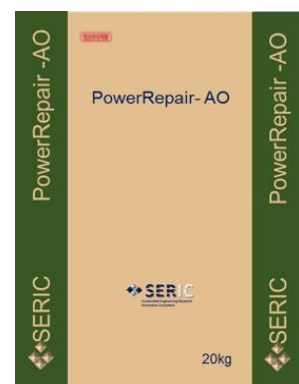
After oil absorption

### PowerRepair-AO

Concrete Repair



PowerHealing L300 & L400



PowerRepair-AO



# Water Seepage Mud Cracking

## Applications of Power Self-Healing Products

**L100 & L200: Crack repairs**

**L-700: Penetrating Sealer with Self-Healing  
(Strengthening of poor concrete)**



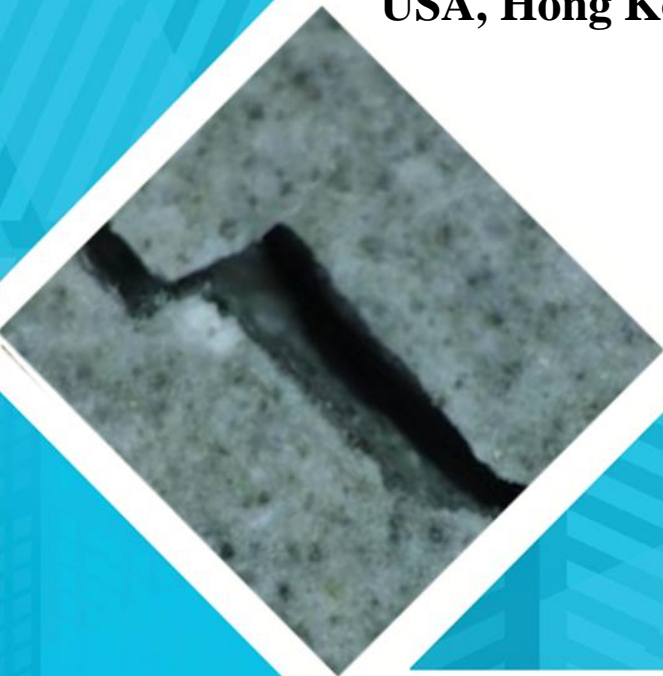
**PowerHealing L100 & L200**



**PowerHealing L700**



**USA, Hong Kong, Thailand**



**Quality Services**



**Technologies**



**Innovations**



**Creative**

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