Significance of Materials in The **ERA** of Transformation

by

Bonding Naturally
Green Build Products (I)Pvt Ltd
Evolution of Shelters
THE WONDER MATERIALS

CEMENT    SAND    WATER
THE WONDER MATERIALS CREATED
WONDERS BUT.......
Also Created Challenges

Pollution
Other Challenges

WATER
SAND
TIME
WASTE MANAGEMENT
OPERATIONAL CHALLENGES
QUALITY
MAINTENANCE
REGULATIONS
RESOURCES

Water

Sand

Labour
Operational difficulties

Fast Track Projects

Internal Logistics
Waste Management
## Challenges for Engineers

### Operational
- Internal Logistics
- Separate Inventory
- Intermediate steps
- Supervision
- Labour Shortage
- Unskilled Labour
- Wastage and cleaning

### Technical
- Material Quality
- Cracks - seepage/fungus
- Repairs and Patchworks
- Reworks in operations
- Speed limit due to mortars
- Post construction Maintenance
Challenging Areas in Building
COST EFFECTIVENESS AND QUALITY

Workmanship - Quality of construction
Quality issues - Cracking, fungus
Post Construction Maintenance
Another Challenge
And Solution is ...

WATERLESS CONSTRUCTION
For Masonry, Plasters, Repairs

a technology that makes construction without
"CEMENT-SAND-CURING"
Common scenario of a construction site
Products...

**BUILDFAST**
Wet Mix Adhesive

**GREENREPAIR**
Wet Mix Repair Mortar

**ECORENDER**
Wet Mix Plaster

**GREENSEAL**
Wet Mix Crack Sealing Mortar

**GREENGROUT**
Wet Mix Grouting Morter
Integrated Green Wall Solutions

Internal Walls

- Beam
- Green Grout
- Electrical Condute
- BuildFast - for masonry joints
- Eco Render back coat for Gypsum/POP
- Paint
- Gypsum/POP
Integrated Green Wall Solutions
Certifications and Empanelment

• Green Pro - By CII IGBC
• EXOVA LABS - Performance certificates
• NTH - Product Performance
• VJTI - Product Performance
• TIP - Product Performance
• MIT - Accelerated weathering for UV Resistance
• Durocrete - Product Performance

Products are already in the approved DSR of Maharashtra PWD
Absolute Complementary

Resource Saving  Time Saving  Manpower Saving  Eco – friendly  And of course  Saves Money......
Achievements

Awards

MCCIA G.S. Parkhe Merit Award (2009)

Indian & International Patents
Thank You!!!