

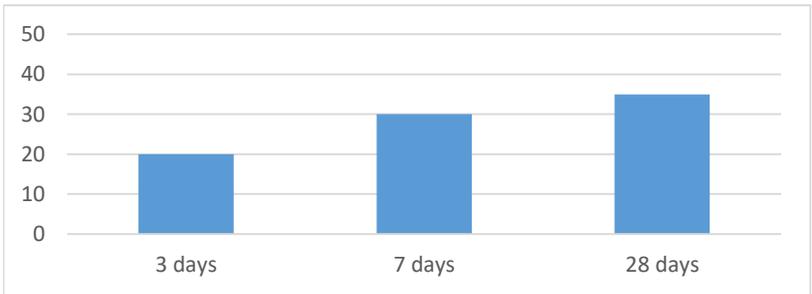
# Hydro Build

Low dosage liquid, integral water proofer for concrete and mortar .

<b>Description</b>	<p><b>Hydro Build</b> is a liquid admixture for concrete to achieve high resistance to water ingress. It is based on a blend of surface active agents and refined lignosulphonate.</p> <p><b>Hydro Build</b> has been specially formulated to give high water reductions up to 20 % without loss of workability or to produce high quality concrete of reduced permeability.</p>												
<b>Uses</b>	<ul style="list-style-type: none"><li>• Site Mixed Concrete</li><li>• Can be used in all structure concrete that is constantly or intermittently in contact with water such as sea walls, tunnels, basements, structure and pre-cast concrete in exposed superstructures.</li><li>• To reduce salt outcome in the plaster work</li><li>• Reduce porosity in the concrete</li><li>• Can be used as waterproofing cum plasticizing admixture for cement mortars and plasters.</li></ul>												
<b>Advantages</b>	<ul style="list-style-type: none"><li>• Provides resistance to water penetration either under hydrostatic pressure or capillary absorption</li><li>• Increased durability</li><li>• Reduced sulphate attack</li><li>• Reduced efflorescence</li><li>• Improved cohesion, reduce segregation</li><li>• Improved surface finish</li><li>• Reduced shrinkage crack in plasters.</li></ul>												
<b>Technical Data</b>	<table border="1"><tr><td>Color</td><td>Dark Brown liquid</td></tr><tr><td>Specific Gravity</td><td>1.17+0.02 at 25 C</td></tr><tr><td>Chloride Content</td><td>Below 0.001%</td></tr><tr><td>PH</td><td>4.5 + 1.0</td></tr><tr><td>Viscosity</td><td>450+200 cPs</td></tr><tr><td>Salt Scaling Resistance</td><td>Excellent</td></tr></table>	Color	Dark Brown liquid	Specific Gravity	1.17+0.02 at 25 C	Chloride Content	Below 0.001%	PH	4.5 + 1.0	Viscosity	450+200 cPs	Salt Scaling Resistance	Excellent
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<b>Standard Compliance</b>	<p>Surface absorption of water, BS 1881 : reduction of 60-80 %</p> <p>Hydro <b>Build</b> complies with IS 9103:1999</p> <p><b>Hydro Build</b> conforms to ASTM C-494, Type 'A', and Type 'D'.</p>												

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<b>Dosage</b>	The optimum dosage is best determined by site trials with the concrete mix which enables the effects of workability, strength gain & high resistance to water ingress to be measured. Site trails with <b>Hydro Build</b> should always be compared with mix containing no admixture. As a guide, the rate of addition is generally in the range of 400 ml to 1200 ml per 100 kg cement. For good quality workable concrete the ideal dose of <b>Hydro Build</b> lays from 0.7% to 1.2% by weight of cement used in the mix design.								
<b>Packaging</b>	<b>Hydro Build</b> is packaged depending on customer`s demand <ul style="list-style-type: none"><li>• 250 kg PE Drum</li></ul>								
<b>Caution</b>	Do not allow product to freeze or be stored in temperature below freezing <ul style="list-style-type: none"><li>• Non-flammable &amp; Non-toxic.</li><li>• When contact with skin or clothing, wash with water</li></ul>								
<b>Application</b>	<ul style="list-style-type: none"><li>• LNG reservoir, Transit railroad, Highway, Subway, Tunnel, Bridge</li><li>• Self-compacting concrete</li><li>• High-rise buildings with high durability</li><li>• Off-shore &amp; marine structure</li><li>• Pre-cast &amp; Pre-stressed elements</li><li>• Improve density and surface finish.</li><li>• Reduced shrinkage and creep</li></ul>								
<b>Shelf life &amp; Storage</b>	<b>Hydro Build</b> has a minimum shelf life of 12 months from the date of manufacture when stored under								
<b>Experimental Result</b>	<p style="text-align: center;"><b>Compressive Strength (Mpa)</b></p>  <table border="1"><thead><tr><th>Days</th><th>Compressive Strength (Mpa)</th></tr></thead><tbody><tr><td>3 days</td><td>20</td></tr><tr><td>7 days</td><td>30</td></tr><tr><td>28 days</td><td>35</td></tr></tbody></table>	Days	Compressive Strength (Mpa)	3 days	20	7 days	30	28 days	35
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