

DURABET®

DURABET® is a high performance concrete resistant to severe exposure conditions, impermeable and with low crack risk, low heat development properties among many years without maintenance.

Constituents of Concrete

During DURABET® production, according to the national-international standards qualified materials are used. All the process from production to casting is 100% controlled.

Cement: CEM I 42,5 N type low alkali cement is produced by Bolu Cement Factory which is participation of OYAK Cement Group exclusively for DURABET®.

Aggregate: All aggregates are obtained from special resources chosen by petrographic analysis.

Chemical Admixture: Micro Silica and Flyash compatible new generation super plasticizers are used in $DURABET^{\otimes}$.

Area of Use

- · Long term durability needed structures,
- Underwater structures,
- Substructure Works.
- Sea water exposed structures.
- Freeze&thaw durability needed Tunnels, Tube tunnels, bridges, etc. structures
- Freeze&thaw durability needed marine structures

Projects Of Used

- Marmaray Project
- Mimar Sinan Project
- Avrasya Tunnel

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Properties of Fresh and Hardened Concrete

(S	sistency Slump) Class	Slump Retention (hours)	Total Air Content (%)	Compressive Strength (Mpa)	Adiabatic Heat Development Qm,7 gün kj/kg	Activation Energy E >20 °C J/mol	CI Permeability C _{m,28 qün} (m ² /sn)	Thermal Expansion Coefficient °C
5	S4-S5	* 2	4 < x <8	f _{cm,28gün} :55-65	260-280	32.500- 34.500	< 3x10 ⁻¹²	6x10-6

 $^{^{\}ast}$ in 20°C ambient temperature







