

HYMIX MicroSilica-F75

PRODUCT DESCRIPTION

HYMIX F75 is a densified dry powder microsilica admixture, that can be used in a variety of cementitious products such as concrete, grouts for portland cement concrete and mortars. HYMIX F75 meets the requirements of ASTM C-1240 and contains a minimum of 90 % silicone dioxide (SiO₂).

USES

HYMIX F75 is recommended for all high performance, high strength applications; concrete required to resist water and chemical ingress and concrete required to resist mechanical abrasion.

Recommended Dosage

Dosage rates are typically specified between 5 and 15 % by weight of cement.

HYMIX F75 strongly recommends that trial batches be performed using project materials in order to determine the optimum dosage for specified project requirements

Advantages

HYMIX F75 produces concrete that has dramatically increased compressive and flexural strength, which allows greater design flexibility and structural design economies, combined with reduced permeability to increase the service life of the concrete.

Compressive strengths are dramatically increased for high performance concrete.

Excellent abrasion and erosion resistance increases concrete durability in high-traffic areas.

Permeability is dramatically reduced, which makes microsilica ideal for applications where concrete will be required to resist chemical attack.

Resistance to corrosion is increased because concrete is more resistant to water ingress and therefore also to corrosion caused by sulfates and water-borne chlorides such as deicing salts.

Decreased permeability gives microsilica concrete excellent freeze-thaw resistance because less water is trapped inside the cement paste.

PROPERTIES & SPECIFICATIONS:

PROPERTIES

Appearance / Color	grey powder
State	Non-amorphous Ultrafine powder
Bulk density	700KG/M3

SPECIFICATIONS

SiO ₂	85%:94
MgO	.8 %
Loss on Ignition (LOI)	2%
Moisture Content	.9

Limitations

Do not introduce repulpable bags into concrete mixes with low water cementitious ratios and smaller size aggregates as these mixes may not develop sufficient mixing energy to fully repulp the bags. Always determine repulpability of bags by pretesting mix designs and batch sequence.

Packaging

HYMIX F75 is available in 25 kg bags, 1000 kg super sacks and bulk delivery.

Shelf Life

when stored in dry warehouse conditions above 35 °F (2 °C) is unlimited.

Storage Conditions

Dry warehouse conditions

Warranty

HYBUILD CONSTRUCTION CHEMICALS warrants that:

1.its products will perform substantially in accordance with the accompanying written materials for a period 1 year from the date of receipt.

2. the product will be free from defects in materials and workmanship under normal use for 1 year .

3.HY-Build supplies products that comply with the properties shown on the current datasheets. In the unlikely event that products supplied are proved not to comply with these properties, then we will replace the non-compliant product or refund the purchase price.