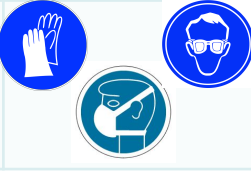





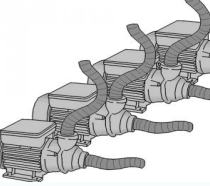




Mixing recommendations for MiniBarsTM

HANDLING		<ul style="list-style-type: none">• GLOVES, DUST MASKS AND EYE PROTECTION MUST BE USED
BEFORE ADDING MINIBARS	 <p><small>© Can Stock Photo - cup1161942</small></p>	<ul style="list-style-type: none">• DOSAGE DEPENDS ON:<ul style="list-style-type: none">• Concrete composition• Type of application• In General all fibres reduce slump• Adjust consistency as required• Dosage over 8Kg /m3 might require ix design adjustments• MiniBars have been used in Dry concrete, normal concrete, self-compacting concrete and HPC with success
DOSING		<ul style="list-style-type: none">• BATCH PLANT MIXER<ul style="list-style-type: none">• Volume fraction of fibre is based on Engineering Specifications• We recommend adding MiniBars as a last component• Vibratory bowl feeders work well with MiniBars• Ensure MiniBars do not develop a pile on the surface of the wet concrete. These can be folded over forming balls in dry concrete.• Broadcast the MiniBars over the surface as the mixer is running.• It is recommended that dosages above 10kg is done at the batch plant mixer
		<ul style="list-style-type: none">• TRUCK MIXER<ul style="list-style-type: none">• Recommended only for dosages below 10kg /M3• Add fibres continuously at a 10 to 15 kg/min• Use of a blower is recommended to ensure dispersion

<p>MIXING</p>		<ul style="list-style-type: none"> • PLANT MIXER <ul style="list-style-type: none"> • Mixing time depends on the efficiency of the mixing equipment • Visual check will indicate the MiniBars are dispersed well.
		<ul style="list-style-type: none"> • TRUCK MIXER <ul style="list-style-type: none"> • Mix continuously while adding fibres • Recommended drum rotation speed > 12 rpm • After adding all fibres, it is recommended to mix for 3 minute / m3 concrete and not less than 6 min in total
		<ul style="list-style-type: none"> • LAB MIXER <ul style="list-style-type: none"> • Avoid high energy compulsory mixers, these shear MiniBars • Recommended to use free fall mixers • After adding all fibres, mix for 2 or 3 minute until even distribution
<p>QUALITY CONTROL</p>		<ul style="list-style-type: none"> • Workability • Air content • Separation of fibres • Fibre distribution in the concrete
<p>PUMPING</p>		<ul style="list-style-type: none"> • MiniBars have been successfully pumped using piston and stator pumps