

Hamilton City Development Manual		
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SECTION 7 : GRADER LAID ASPHALT PRE-LEVELLING

7.1 SCOPE

This Specification describes the work required to lay Mix 10 and Mix 20 asphaltic concrete by grader as a pre-levelling treatment prior to a resurfacing.

7.2 GRADER TYPE

The grader shall be of a type and size that can cope with the requirements of the work. The grader shall be fitted with smooth (i.e. treadless) tyres to ensure that no imprints are left in the asphalt surface.

7.3 LIMITS OF ASPHALT PRE-LEVELLING

The limits of the areas to be pre-levelled, and the type of mix to use shall be determined with regard to depth and size of area and the specified requirements, and shall require the approval of the Engineer.

7.4 PREPARATION

The carriageway surface shall be swept clean to ensure all loose chip and debris have been removed.

7.5 USE OF MIX TYPES

The following mixes shall be used unless otherwise stated in the Project Specification:

0-20mm depressions	Mix 10
20-45mm "	Mix 10
45mm & above "	Mix 20

7.6 LAYING OF ASPHALT

7.6.1 Tack Coat

A tack coat of 180/200 penetration cationic emulsion shall be applied to the surface at the rate specified.

7.6.2 Application of Pre-levelling Course

All pre-levelling coats shall be laid in layers not exceeding 50mm in depth.

The edges shall be feathered out to the minimum depth of asphalt possible, without segregation taking place. Where two or more layers are required, the next layer shall be laid immediately after compaction of the lower layer has been completed.

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Where a paver-laid final levelling layer is specified the surface of the final compacted grader laid layer shall not be less than 30mm below the final surface level.

Compaction of each layer shall take place immediately after laying using the appropriate compaction equipment.

7.6.3 Final Levelling Surface Requirement

The surface of the final pre-levelling coat shall be homogenous, smooth and have no signs of areas of possible water ponding. The overall surface shall correspond in level and shape to the existing surrounding surface. The interface between the final levelling coat and surrounding surface shall be as smooth as practical and shall not be a hindrance to water run-off.

7.6.4 Tolerance

The acceptable tolerance for the final surface of the levelling coat, however placed, shall be plus zero minus 6mm when measured by a 5m straight edge placed at any position on the final levelled surface.

7.6.5 Measurement Requirements for Tonnage

Where the asphalt is to be paid for on a per tonne basis, Clause 6.3 - Pavement Rehabilitation shall apply.