VERSION: 03

ISSUED: MAY 2025

LARSEN

CIVILS & REPAIRS

TECHNICAL DATA SHEET

Mac Grout

HIGH STRENGTH GROUT

JOINTLESS SURFACE

FREEZE THAW RESISTANT

RESISTANT TO DEFORMATION

RESISTANT TO RUTTING

COMBINES FLEXIBILITY OF ASPHALT WITH THE STRENGTH OF CONCRETE

Larsen Mac Grout is a highly fluid, high strength cementitious grout designed for producing grouted macadam. Grouted Macadam provides a semi-flexible, typically jointless, hard wearing surface course. The major benefits are its resistance to deformation and wear compared to normal asphalt concrete surface courses. This makes it ideal for bus depots, distribution yards, ports and harbours.

TECHNICAL DATA SHEET

PRODUCT INFORMATION

FORM	Powder
COLOUR:	Grey
MAX AGGREGATE:	1mm
HAZARD INFORMATION:	Contains cement. Consult Safety datasheet before use
CLEANING:	Clean tools, equipment, etc. Using warm water. Mechanical means are necessary when the product has set.
PACKAGING:	Bulk Silo or Bulk Bag
STORAGE INSTRUCTIONS:	Store unopened containers in a dark, cool, dry location away from extremes of temperature
SHELF LIFE	Minimum 6 months in unopened manufacturer's containers

APPLICATION INFORMATION

WATER DEMAND:	Up to 28%
APPLICATION TEMPERATURE:	+5°C to +30°C
WORKING TIME:	Approx. 40-60 minutes
SETTING TIME:	Typically 8hrs depending on site conditions Light Traffic from 24 hours Full Traffic from 48 hours
APPLICATION THICKNESS:	Up to 200mm Typically the grouted macadam surface course is 30-40mm
YIELD:	Depending on the voids in the open graded asphalt Typically 0.4-0.5kg/m2/mm

PERFORMANCE INFORMATION

TYPICAL PERFORMANCE OF GROUTED MACADAM
(Performance is dependent on application)

COMPRESSIVE STRENGTH:	7 Days >15MPa 28 Days >55MPa
ELASTIC MODULUS:	7 - 11 GPa

DIRECTIONS FOR USE

Larsen Mac Grout is designed to fill a suitably open graded asphalt concrete. It is designed to be used for use in storage areas. distribution yards and other areas with heavy loads or where traditional concrete or asphalt are unsuitable.

PREPARATION

The grouted macadam surface course can be applied to almost all suitable new or existing bases. Where concrete forms the base, structural movement joints must be carried through to the surface. The base must be clean and dust free with all necessary patching or repairs completed. A suitable bitumen emulsion tack coat should be applied prior to laying the open graded asphalt. A suitable open graded asphalt should be installed to the necessary surface tolerance and in such a way as to provide typically 25-30% voids remaining.

MIXING

The Larsen Mac Grout may be mixed directly from a site silo or in smaller quantities from bulk bag by suitable mixing pump. Typically a pump with a capacity of 5 MT per hour is sufficient for 40-50mm depths. The mixing and pumping operations must be carried out continuously without interruption. Should an interruption of more than 15min occur, the hoses etc should be cleaned as recommended. The grout should be mixed with sufficient water to provide a highly fluid grout without segregation. Consistency should be regularly checked with a suitable grout flow cone - contact our technical department for further advice.

DIRECTIONS FOR USE (continued)

INSTALLATION

The temperature of the OGA should be below 35°C at the time of laying. The grout is pumped and then spread with rubber or foam squeegees. Regular checks should be carried out to ensure the OGA is completely filled with the Mac Grout. If necessary light vibration may be applied to release trapped air pockets, taking care not to compact the OGA. A final finishing action with a stiff brush may be required to remove ridges etc. Alternatively, when suitably hard, the surface may be shot-blasted to provide a more uniform finish.

RESTRICTIONS

All work should be carried out to current best practice and industry guidelines. Final strength, finish and durability will be dependent on site application and conditions. Do not apply externally if heavy or prolonged rain is expected. Ambient and substrate temperatures should be above 5°C during application. Fresh mortar should be protected from frost until fully hardened. When ambient or substrate temperatures are below 10°C, allow extra time for the material to harden before applying loads or traffic. In warm and windy conditions take extra care to prevent rapid drying which may lead to cracks. The performance of this product is dependent on the user having the required skills and familiarity with the product and its application methods. As with all cementitious materials the final appearance and colour is dependent on numerous factors including weather, site conditions and application.