

TRANSPORTATION & LAYING INSTRUCTIONS **SUPERCOLOUR** ULTRA



Q01/ASP/GUIDANCE

These Laying Instructions supplement Aggregate Industries UK Limited Standard Terms of Sale. To achieve optimum results the Customer (and any performance of the installed product.) These instructions in combination with Contractor experience shall be used to ensure Supercolour® Ultra is installed in a consistent, efficient and high quality manner throughout the supply period.

This document gives detailed laying instructions and is designed to achieve high quality in service performance of the installed product.

REQUIREMENTS

This document shall be passed in advance of projects to Contractor customers to aid them in the process of dealing with the specific challenges of handling, laying and compacting Supercolour® Ultra products. The contractor shall acknowledge receipt of this guidance and bring to the Company's attention any areas within the guidance where requirements cannot be met.

TRANSPORTING GOODS

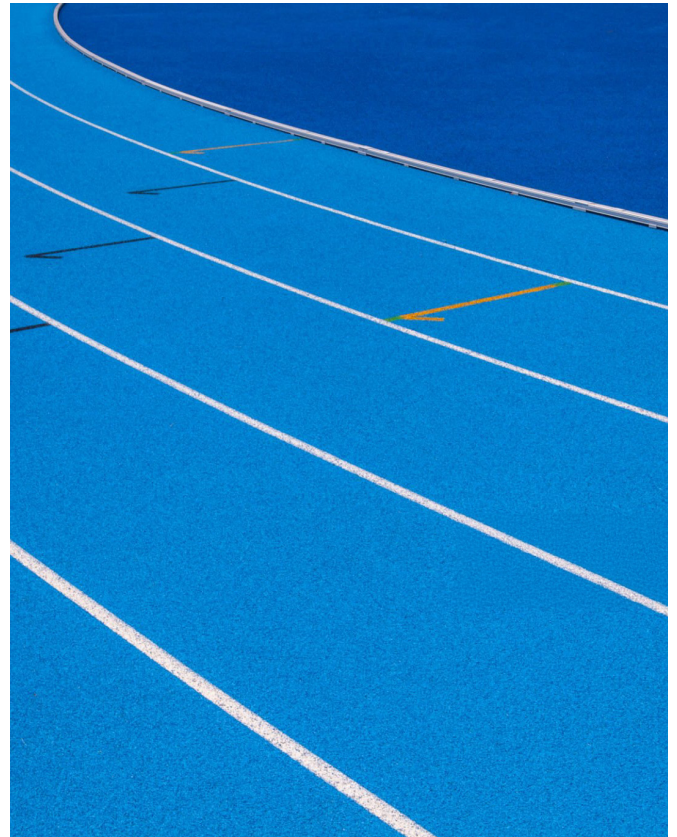
The Goods may be delivered or collected. Upon delivery or collection, the wagon body must be insulated, thoroughly cleaned and free of contamination. The Customer should pay particular attention to the cleaning of any chutes. Water is the only agent permitted to minimise sticking and must be applied by the Customer in the form of a spray. Vehicle bodies must be inclined prior to loading in order to drain any standing excess water. The Customer must ensure that the temperature of the Goods is maintained at a minimum of 125°C during the installation process in order to facilitate a full compaction and to maximise the potential of an even texture. When the Customer collects the Goods and where the Goods are stored on site for the purposes of hand laying, insulated tarpaulin must be used in order to reduce the rate of heat loss.

PAVER CLEANLINESS

Pavers must be cleaned by the Customer prior to laying the Goods. The Customer should purge the machine with hot aggregate from an asphalt plant. It is best practice for a Customer to then process a staining batch through the paver (a sacrificial batch of the desired colour of Goods) in order to stain the working parts of the paver, so as to minimise the risk of black contamination. Contact your local Express Asphalt Business Manager to request to arrange.

TOOLS AND BOOTS

Any wheelbarrows, hand tools, and boots used by the Customer must be brand new or immaculately clean in order to avoid discolouration or contamination. At frequent intervals throughout the laying process (for example, every 30 minutes) tools must be cleaned with detergent and water, or through heating and scraping. The use of diesel is not permitted. Walking on the laid mat prior to rolling must be avoided



COMPACTION EQUIPMENT

Rollers must be cleaned prior to laying the Goods and care must be exercised by the Customer when dousing the drums with water in order to prevent streaking on the finished surface. The Customer must exercise caution in order to avoid contaminating the surface of the Goods when the roller exits and enters the installation area.

The following applications and roller sizes should be matched:

- Highway works - 6 tonne dead weight (Bomag 161 or equivalent),
- Light traffic and walkways – 3 tonne dead weight (Bomag 120 or equivalent),
- Restricted areas – 2 tonne dead weight (Bomag 80 or equivalent).

The Customer should note that the use of hand compaction equipment instead of roller equipment may adversely affect the surface finish and the Customer is advised against doing so.

TACK COAT APPLICATION

Where tack coat is applied by the Customer it must be left to fully break prior to laying. Tack coat is required on receiving courses, on highways or in lightly trafficked areas. It may not be required on pedestrian walkways or where the receiving course has been recently laid (i.e. is still sticky) and is free from contamination. If a Customer is in doubt as to whether it should be used, please contact your local Business Manager or Technical representative who may be able to assist. Care should be exercised by the Customer to avoid contaminating the finished surface with tack coat as it may bleed through to the mat surface and cause staining, particularly where the depressions and/or variations in surface levels attract pooling.

JOINT PAINTING AND IRONWORK

Prior to the installation of the Goods, all ironwork must be raised and painted with clear joint paint. All joints must be cut to full depth and painted with clear joint paint, in accordance with BS 594987. Alternatively, longitudinal joints in the Goods may also be formed by use of an edge compactor creating a chamfered edge during the laying process. Cutting back of the longitudinal joint is not necessary in this instance.

RECEIVING COURSE

Prior to the laying of the Goods by the Customer, all weak areas of the receiving course should be repaired and strengthened, free from debris, clean and free from

standing water. Unbound sub base is not permitted as a receiving layer for the Goods. It may be possible to overlay concrete, however if this is proposed, please contact your local Business Manager or Technical representative who may be able to assist.

WEATHER CONDITIONS

The Goods must not be laid on any surface which is frozen or covered with ice or snow. The Customer must not commence hand laying until the air temperature reaches 3°C on a rising thermometer, except in calm and dry conditions. Machine laying must not commence until the air temperature reaches 0°C on a rising thermometer. Wind speed has a greater effect on the rate of cooling than ambient temperature and this requires further caution when hand laying or when laying porous Goods.

ON SITE DELIVERY TEMPERATURES

The Customer must measure and record the on-site delivery temperature of the Goods with a contact temperature probe which should read a minimum of 125°C.



LAYING AND COMPACTION

In order to avoid segregation, dragging or surface irregularities, laying must be completed by the Customer at the recommended thicknesses:

- 20-40mm for 6mm Goods; or
- 30-50mm for 10mm Goods.

Any correction to the laid mat (alignment, thickness, surface finish) must be completed by the Customer before the application of the first roller. Compaction should commence without delay after laying the Goods and without causing undue displacement. Compaction must commence before the mat temperature falls below 90°C and immediately prior to rolling, Casting and throwing back of material onto a rolled surface should be avoided wherever possible.

ROLLING

Rolling must be exercised with caution by the Customer so as to maximise the likelihood of achieving the correct surface profile and a regular textured finish. Rolling must be undertaken in a single direction so as to avoid variations in surface colour or texture. The use of hand compaction equipment must be kept to an absolute minimum. The use of hand compaction equipment will reduce the likelihood of distinct roller marks left on the surface.

OPENING TO TRAFFIC

The surface must not be exposed to any traffic for a minimum of 24 hours and until the Goods have cooled to ambient temperature.

EVIDENCE OF COMPLIANCE LAYING RECORDS

In the event of a dispute over quality, the contractor shall make sure they have and retain all of the necessary laying records to confirm that this guidance has been followed and implemented. All records relating to Supercolour® Ultra shall be kept for a minimum of 2 years. Disclaimer: These Laying Instructions provide additional practical information to a Customer in laying the Goods and seeks to expand on the requirements given in the most current version of BS EN 594987 Asphalt for roads and other paved areas – Specification for transport, laying, compaction and product type testing protocols which should be regarded as the minimum installation requirements for the Goods.





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