Part No: TAR5TO-MEA

TARMAC TRUPAK
HEALTH AND SAFETY
PRODUCT DATA SHEET

COLD LAY MACADAM

1. Identification of Substance

Product Name:	Cold Lay Macadam
Company:	Tarmac Trupak, Plumtree Industrial Estate, Harworth, Doncaster. DN11 8EW
Tel:	01302 718400
Fax:	01302 714139

2. Composition

Cold Lay Macadam is a mixture of aggregates and fluxed bitumins. The flux oil is white spirit. The fluxing agent will not exceed 1% of the mixture and will typically by 0.5% or less. For further details refer to the relevant Technical Data Sheet.

3. Hazardous Identification

This product s not classified as hazardous in accordance with the CHIP regulations (SI 3247/1994).
The main hazard presented by Cold Lay Macadam are:

- Skin contact: the product is very sticky.
- Fumes from Cold Lay Macadam are unlikely to be hazardous when laid in open air situations, but there may be a risk to health by continuous inhalation of high vapour concentrations which might arise in confined or semi-confined spaces.

4. First Aid Measures

Eyes:	Irrigate or flood the eye(s) with copious amounts of clean water for about 10 minutes. Seek medical advice if pain/discomfort persists.
Skin:	Following skin contacts, wash thoroughly as a hygiene precaution, using proprietary hand cleaner.
Inhalation:	Immediately remove to fresh air and seek medical attention.
Ingestion:	Remove to fresh air and give water to drink. Seek medical advice.

5. Fire Fighting Measures

Suitable Extinguishing Media:	Dry powder, foam
Unsuitable Extinguishing Media:	CO_2
Special Exposure Hazards in Fire:	Hyrdocarbon fumes may be released.
Special Protective Equipment for Firefighters:	Full protective clothing including suitable respirator or breathing apparatus.

6. Accidental Release Measures

Personal Precautions:	Wear overalls and gloves, avoid skin contact.
Environmental Precautions:	Entry into water courses should be avoided.
Method of Cleaning:	No special requirements.

7. Handling and Storage

Handling:	Skin contact with hot materials should be avoided. Inhalation of fumes should be avoided as far as reasonably practicable.
Storage:	No special requirements. Refer to the relevant Technical Data Sheet for the specific product

8. Exposure Controls/Personal Protection

Take measures to prevent:

- Inhalation of dust
- Inhalation if excessive quantities of dust during cutting or surface treatment of hardened product.

Exposure Control Limits/Source

Asphalt Fumes	-	OES	5mg/m^3	8hrs	TWA
			10mg/m^3	15min	TWA
Total Dust	-	OES	10mg/m^3	8hrs	TWA
Respirable Dust	-	OES	4mg/m^3	8hrs	TWA
Respirable Quartz	-	MEL	0.3mg/m^3	8hrs	TWA

Crystalline Silica SiO_2

OES = Occupational Exposure Standard
MEL = Maximum Exposure Limit

Respiratory Protection:	Suitable masks if dust/fume is present in significant quantities
Hand Protection:	Gloves
Eye protection:	Goggles may be required.
Skin Protection:	Overalls

9. Physical and Chemical Properties

Appearance:	Black, granular, solid.	Odour:	Strong
PH:	Neutral	Boiling Point/Range:	N/A
Melting Point/Range:	N/A	Flash Point (^oC):	Above 200^oC
Flammability:	Not determined	Auto Flammability:	Not determined
Vapour Pressure:	Not Applicable	Relative Density:	Above 2.0
Water Solubility:	Insoluble	Fat Solubility:	Not determined

10. Stability and Reactivity

Conditions to Avoid:	Sources of ignition and Temperatures about 200^oC.
Materials to Avoid:	Strong oxidising agents, e.g. chlorates which may be used in agriculture.
Hazardous Decomposition Products:	The substances arising from the thermal decomposition of the bitumen binder in Asphalt will largely depend on the particular conditions but may contain the following: Carbon Dioxide, Carbon Monoxide, Water, Particulate Matter, Hydrogen Sulphide, Sulpur Oxides, Polycyclic Aromatic Hydrocarbons, Unburnt Hydrocarbons, Nitrogen Oxides, Vanadium Pentoxide.

11. Toxicology Information

Fumes inhaled over a prolonged period could constitute a health hazard. Prolonged skin contact may cause dermatitis and malignant warts.

12. Ecological Information

Environmental Assessment:	When used and disposed of as intended, no adverse environmental effects are foreseen.
Mobility:	Asphalts are non volatile materials that will sink in water and form a solid layer on the surface of the ground.
Persistence & Degradability:	Asphalts are resistant to degradation and will persist in the environment for a considerable period of tie.
Ecotoxicity:	Not expected to be toxic to aquatic organisms when used as intended.

13. Disposal Considerations

Likely Residues/Waste Product
Cold Lay Macadam is an inert material.
Safe Handling of Residues/Waste Product
Aggregates are inert but should be disposed of in accordance with local an national legal requirements. See the Environmental Protection Act 1990 – Duty of Care.

14. Transport Information

Special Carriage Requirements: None, but keep covered.

15. Regulatory Information

This product is not classified as dangerous for transport.

16. Other Information

Training Advice:	Wear and Use PPE
Recommended Uses & Applications:	Industrial and construction applications.
Further Information:	See section 1.

Key Data Used to Compile Data Sheet:
HSE Guidance Note (EH40/98), PPE Regulations 1992, COSHH Regulations 1994, Environmental Protection Act 1990, HSE Crystalline Silica (EH59 10/97)

TARMAC TRUPAK, PLUMTREE INDUSTRIAL ESTATE,
HARWORTH, DONCASTER. DN11 8EW

TARMAC
A CRH COMPANY

TECHNICAL INFORMATION

COLD LAY MACADAM

Product Data Sheet

DESCRIPTION

Cold Lay Macadam is ready to use, straight from the bag for quick, cost-effective repairs to paths and driveways.

USES

- Driveway repairs
- Repairing and widening footpaths
- Filling potholes
- Temporary ramping

SPECIAL PROPERTIES

- Simple to use, no previous experience is required
- No specialist tools or equipment are required
- Suitable for base or wearing course

PREPARATION & APPLICATION GUIDES

- Ensure the area where the **Cold Lay Macadam** is to be laid is dry and firm enough to support the weight of a car under normal conditions.
- Sweep the area and remove all weeds.
- Before overlaying concrete or paving, spray or brush on a tack coat of bitumen emulsion (edging & Jointing Spray is recommended) at a rate of about 0.5litres/m^2, to help prolong the life of the repair, especially if prone to freeze/thaw conditions.
- Use an ordinary rake, spade or trowel to spread the **Cold Lay Macadam** to the required thickness.
- Use a roller to achieve good compaction or, alternatively, use a heavy, flat object for ‘tamping’ to achieve similar results
- Wet the roller or tamper frequently to stop the **Cold Lay Macadam** sticking to the tool and ‘picking up’.
- Brush a little dry sand or dust over the surface after compaction to help prevent ‘picking up’ of the fresh material as it sets. This is not essential but may be helpful, especially on warmer days.
- When repairing deep pot-holes (greater than 30mm) lay the **Cold Lay Macadam** in two stages.
- Thoroughly compact the first layer before spreading the next layer and compact to bring the finished surface to the required level.
- Do not place heavy and sharp objects on the newly laid surface.
- Protect from caravan legs, jockey wheels and other similar high loadings.
- It is not recommended to use **Cold Lay Macadam** in outside temperatures below 5^{o}C or when the area to be worked is very wet.
- Clean all equipment and tools with water prior to the material setting.

TYPICAL COVERAGE

One bag of **Cold Lay Macadam** will cover approximately 0.4m^2 at 30mm when compacted.

PLEASE NOTE:

- After prolonged storage, it may be necessary to expose the bag of the **Cold Lay Macadam** to direct sunlight for 1-2 hours prior to opening to loosen the material and restore workability.
- The workability of the **Cold Lay Macadam** will improve if the outside temperature is above 10^{o}C (50^{o}F).
- The more rolling or tamping applied to the surface, the better the resulting surface finish.
- The material may be prone to marking during early life and warm conditions.

For more details contact:
03444 63 64 65 packedproducts@tarmacbp.co.uk

The information given in this technical data sheet is based on our current knowledge and is intended to provide general notes on our products and their uses. Tarmac endeavour to ensure that the information given is accurate, but accept no liability for its use or its suitability for particular application because of the product being used by the third party without our supervision. Any existing intellectual property right must be observed.

- The time taken by the **Cold Lay Macadam** to harden fully will depend on the degree of compaction and ambient temperature.

PACKAGING & STORAGE

Cold Lay Macadam is available in large bags. Always keep the bag sealed when not in use.

Shelf life: **Cold Lay Macadam** can be stored for long periods, in excess of 6 months, under cover.

QUALITY CONTROL

All Tarmac products are factory blended, tested and packaged to quality control procedure in accordance with BS EN ISO 9001.

SAFETY AND HEALTH WARNING RISKS

Health and safety advice, which must be followed, can be found on the Material Safety Data Sheet.

- Skin contact: The product is very sticky.
- Use skin cleanser followed by soap and water to remove any material that comes into contact with skin.
- Fumes from Cold Lay Macadam are unlikely to be hazardous when laid in open air situations, but there may be a risk to health by continuous inhalation of high vapour concentrations which might arise in confined or semi-confined spaces.
- Do not place heavy and sharp objects on the newly laid surface.
- Protect from caravan legs, jockey wheels and other similar high loadings.

SAFETY

- Respiratory Protection: Suitable masks if dust/fumes are present in significant quantities.
- Hand Protection: Gloves.
- Eye Protection: Goggles maybe required.
- Skin Protection: Overalls.

INFORMATION, PRICES & ORDERING

For technical information, pricing and to place orders please contact us as follows:

Technical Information t: **03444 63 00 46**
Orders t: **03444 63 64 65** f: **08443 09 97 01**
Email: **packedproducts@tarmacbp.co.uk**
Visit our website: **tarmac.com**
Tarmac Building Products Ltd., i10, Railway Drive, Wolverhampton, WV1 1LH