DATA SHEET

VOLUME 1, ISSUE 1
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Limpet BD6

Compounds

Limpet BD6 armouring compound is a self setting cement for internal, external and marine use as a protective layer over calcium silicate and all mineral wool insulants. Limpet BD6 does not require heat for setting. For external applications Limpet BD6 requires the protection by a flexible weatherproof coating as self setting cements are not impervious to water.

Limpet BD6 is supplied in a dry powder form in strong polythene bags containing 25 kgs. This compound can be applied by hand or by using a sprayed system. The approximate usage of clean water per 25kg bag is 15 litres.

Limpet BD6 and all other finishing compounds offered by IBSL are rated "Non Combustible" to BS 476 Part 4: 1970. They act in accordance with the fire performance requirements of Class "0" as characterised in the Building Regulations.

IBS Insulation & Buoyancy Services Limited

Applied Density

Approximately and after drying

	Density kg/m^3
Capyt HS	1500
Capyt SS100	875
Limpet BD6	1200

Typical Coverage

	M^2/tonne
Capyt HS	60 at 12mm thickness
Capyt SS100	190 at 6mm thickness
Limpet BD6	248 at 3mm thickness 124 at 6mm thickness

Product Characteristics

	Limpet BD6
Product Standards	BS 3958: Part 6
Non Combustible	BS 476: Part 4
Nominal Applied Dry Density	1200 kgs/m^3
Temperature Limits	175°C
Claimed Coverage m^2/6 mm Thick/ 1000 kgs	124
Claimed Coverage m^2/3 mm Thick/ 1000 kgs	248
Composition	Self Setting
Product Form	25kg Bags
Dry State Shelf Life	12 Months

Application and Finishing

Surfaces to be coated can be pre-damped. Materials should be used within two hours of mixing. Capyt SS100 and Limpet BD6 are normally hand applied at 6mm thickness. Limpet BD6 is also suitable for wet spray application at 5mm thickness.

Wire mesh or expanded metal reinforcement can be incorporated in the applied layer where extra integrity is required. Note that self-setting cements do not require the application of heat source to induce setting. Setting time is normally 24-36 hours, final drying time depends on ambient temperature and humidity. In areas of high expansion and contraction movement joints should be included to limit panel sizes to approximately 1.8m x 1.8m; for further advice see BS 5970:1981.

Note that as self-setting cements contain Portland Cement, rubber or PVC gloves should be worn by all applicators, especially during hand mixing.

Temperature Limits

	°C
Capyt HS	150
Capyt SS100	150
Limpet BD6	175

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Standards

All IBSL finishing compounds conform to BS 3958: Thermal Insulating Materials, Part 6:1972 (1980) Finishing materials; hardsetting composition and self-setting cement.

For further information regarding application please refer to:

BS5422: 1990: Method for specifying thermal insulating materials on pipes, ductwork and equipment.

BS5970: 1992: Code of practice for thermal insulation of pipework and equipment.

BS476: Part 4:1970 rated as non combustible, complies to the performance requirement of Class O as defined in the building regulations.

Thermal Conductivity

Thickness (mm)	Thermal Conductivity (W/mK)	Thermal Resistance (m^{2}K/W)
3	0.2	0.015
6	0.2	0.030
12	0.2	0.060

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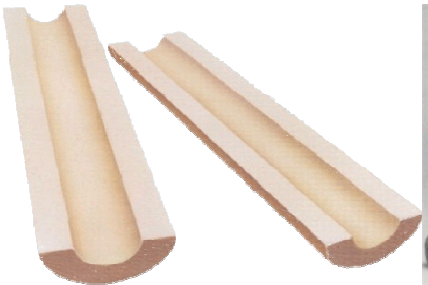

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Compounds

1. General - Limpet and Capyt Compositions are a mixture of cementitious binders mineral wool together with a dust suppressant. There are several material grades covering areas of high and low temperature thermal insulation and surface protection.

2. Hazards Identification - Cement is a major constituent and the dust is alkaline and irritant. The other major constituent is rockwool fibre, for which the allowable limit is 2 fibres/ml or 5 mgs/m³. Not classified as dangerous according to EEC regulations.

3. First Aid Measures

3.1. Eyes - Contact with dust can cause irritation. Wash eyes with copious amounts of water. If irritation persists seek medical advice.

3.2. Skin - Prolonged contact may cause drying and transient irritation. Wash with soap and water

3.3. Inhalation - High exposure levels may cause coughing and mild respiratory tract irritation. If irritation persists seek medical advice.

The dust arising from these products is listed in Schedule 1 of the COSHH Regulations 1988, and in the H & SE Guidance Note EH46 (1990), and is subject to a maximum exposure limit of 5 mgs per m³ and 2 fibres/m, which ever is achieved first (8 hour TWA total inhalable).

Experience has shown that during operation the level of airborne dust and fibre could exceed the MEL in the immediate vicinity of the application, It is therefore recommended that the operatives use a disposable face mask bearing the 'CE' mark and conforming to BS/EN 149 Type FFP2S.

In very confined spaces the exposure levels may be above those for which a Type FFP2S mask is suitable, measurements may need to be carried out to determine the necessary level of protection required.

Respiratory protection equipment should be used to provide a minimum nominal protection factor (NPF) of 10 (BS 4275), and to meet the requirements of BS2091 for half mask dust respirators, and BS 6016 for disposable filtering mask respirators.

3.4. Ingestion - No known health effects. Drink plenty of water and seek medical advice.

4. Fire Fighting Measures - The material are incombustible.

5. Accidental Release Measures - Minimise dust by damping with water. Dispose of in any land fill site in accordance with local regulations.

6. Handling and Storage - The material will be damaged by moisture. It should be stored in the dry.

7. Exposure Controls - Personal Protection - Protect eyes from dust. Use gloves and overalls as normal protection against dusty materials. Use respiratory protection equipment as described in 3.3 above

8. Physical and Chemical Properties

Appearance	- Grey/white coloured mixture of fibres and powder.
Odour	- None.
pH	- Upto 14 when slurried with water.
Melting Point	- Around 1500°C.

Boiling Point, Flash Point, Flammability, Explosive properties, Oxidising Properties, Vapour Pressure, Relative Density and Solubility are Not Relevant.

9. Stability and Reactivity - Similar to cement. The material is alkaline when slurried with water.

10. Toxicology

Substantial independent research has been conducted into the health effects of mineral wool and humans. There is no evidence that mineral wool presents any risk to production workers or end users today, or has done in the past 20 to 30 years. In the general environment levels of exposure are minute, and no hazard is posed to the public.

The EU have classified most mineral wools as R38 – Irritant to skin only providing that the manufacturers can supply a toxicological report which states that in a short-term biopersistence test by inhalation that fibres longer than 20µm have a weighted half life less than 10 days. The fibres used in this product comply with that standard. In situations where mineral wool is being handled, steps should be taken to ensure that exposure to dust is kept at a minimum reasonable level, and not in excess of control limits. As the products contain a high percentage of cement, and is therefore alkaline, suitable gloves should be worn whilst mixing or handling the materials.

11. Ecological Information - The addition of compositions to watercourses should be avoided as the resulting high alkalinity could be hazardous to aquatic life.

12. Disposal Conditions - Surplus material and empty bags should be disposed of as builder's waste.

13. Transport Information - No special requirements.

14. Regulatory Information - H & SE Guidance Notes EH40, EH44 and EH46. Eurisol (UK Mineral Wool Association) Health Statement dated 1st November 1989 and 1st August 1990.

15. Other Information - None.

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