

Product Data Sheet

CasTech Coat RBE 40/10

Nov-2025, Ver. 01.01



Cold-Applied Rubberized Bitumen Emulsion Coating

DESCRIPTION

CasTech Coat RBE 40/10 is a ready-to-use, cold-applied bitumen emulsion modified with rubber latex to provide a tough, durable and elastic coating. The cured film is weatherproof and resistant to aggressive ground salts.

TYPICAL USES

- Tanking and waterproofing of concrete and brick foundations, retaining walls, bridge abutments, basements and columns
- Damp-proof membrane in sandwich construction
- Adhesive for bonding wooden flooring, insulation board, expanded polystyrene, PVC and cork tiles
- Curing membrane cum protective coating for sub-structures

ADVANTAGES

Key advantages:

- Excellent adhesion to most building substrates
- Single component, non-flammable and easy to apply; tough impermeable film with good resistance to rupture during backfilling
- Resists chloride and sulphate attack; withstands temperature extremes without flow or embrittlement
- Sufficient elasticity to accommodate small movements and hairline cracks
- Suitable for damp and dry surfaces
- Forms a tough, elastic, seamless coating on drying
- Can be applied on vertical and horizontal surfaces

TYPICAL PROPERTIES

Colour	Brown liquid
Specific Gravity @ 25°C (ASTM D2939)	1.0 (± 0.02)
Solid Content (ASTM D2939)	40 (± 2)%
Rubber Content (ASTM D297)	~ 10%
Drying Time @ 25°C	1 - 2 hours (touch dry)
Flash Point	Non-flammable
Overcoating Time	4 h min.*
Tensile Strength (ASTM D412)	> 0.2 MPa
Elongation (ASTM D412)	> 175%
Service Temperature	-5 to 75°C

*Limits extend under low temperature or high humidity. All values are subject to 5 - 10% tolerance. Drying time depends on substrate, temperature, humidity and thickness.

STANDARDS

CasTech Coat RBE 40/10 conforms to the requirements of ASTM D1227 Type III, Class 1 and ASTM C309.

SURFACE PREPARATION

Surfaces should be sound and clean. Loosely adhering particles such as cement, laitance and rust scale should be removed by suitable means.

APPLICATION

Stir well before use. Apply by brush, squeegee or spray; when spraying, dilute with 10% clean water. Dampen hot, dry or very porous substrates with clean water before applying **CasTech Coat RBE 40/10**; a priming coat of the product mixed with cool clean water in equal proportions is also recommended on such substrates.

Where two or more coats are required, each coat must be fully dry before the next is applied; brush successive coats at right angles. Where screed or render is to follow, blind the final coat with clean sharp sand, allow to dry and brush off excess sand. Do not apply externally in wet weather or when rain is expected; protect freshly applied product from rain until fully cured.

COVERAGE

Depending on the dry film thickness required, apply at 1 - 4 m²/L/coat:

- Waterproof membrane: two coats at 1.5 - 2.0 m²/L/coat
- Damp-proof membrane / vapour barrier: two coats at 3 - 4 m²/L/coat
- Curing membrane: two coats at 5 - 6 m²/L/coat

CLEANING

Clean tools immediately after use in a strong soap solution and keep brushes soaking in this solution between applications. Hardened material needs physical scraping followed by treatment with white spirit.

PACKAGING

200 L drums, 20 L and 15 L pails.

STORAGE AND SHELF LIFE

Store in a covered area under normal warehouse conditions, away from direct sunlight and protected from extreme temperatures. Keep containers tightly closed. Shelf life is 12

Product Data Sheet
CasTech Coat RBE 40/10

Nov-2025, Ver. 01.01



months from the date of manufacture.

HEALTH AND SAFETY

Non-hazardous and non-flammable emulsion.

PPE: Always wear gloves, safety shoes and safety goggles while using and handling this product.

Precautions: Avoid contact with skin and eyes. In case of contact with eyes, wash with plenty of water and seek

medical attention immediately.

Additional information: Refer to MSDS (available on request).

TECHNICAL SUPPORT

CasTech provides on-site assistance and consulting services on projects when requested. Technical data sheets on other CasTech products and guidance on their use are available on request.

CasTech MIDDLE EAST FZE

T6-04, Sharjah Airport Free Zone, Sharjah, UAE

P.O. Box: 121661 Tel.: +971-6-5489207

Fax: +971-6-5579879 Email: info@castechchem.com