



BUILD CORE CHEMICALS

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PRODUCT DATA REPORT

CORESEAL 357A/ CORESEAL 357 CAT

Polyurethane injection grout to be used as a waterstop system producing a relatively stiff **polyurethane foam**.

DESCRIPTION

CORESEAL 357A is a polyurethane injection material which, when used in conjunction with CORESEAL 357 CAT, produces an effective means of stopping water seepage.

CORESEAL 357A consists of an MDI based, solvent free, isocyanate component and a special catalyst (CORESEAL 357 CAT).

This system **ONLY** reacts when it comes in contact with water producing a relatively stiff, rigid polyurethane foam.

We would advise the use of CORESEAL 357A/ CORESEAL 357 CAT in instances where it is required to stop water penetration or to react away water in cracks.

As the CORESEAL 357A/ CORESEAL 357 CAT is designed as temporary waterstop system, we would advise the permanent repair of cracks, after stopping the flow of water with CORESEAL 357A/ CORESEAL 357 CAT, using our:

CORESEAL 135A for an elastic sealing
or
CORESEAL 138A for a structural repair

PHYSICAL CONSTANTS OF THE LIQUID COMPONENTS

Property	CORESEAL 357 A	CORESEAL 357 CAT
Colour	brown	Clear
Specific Gravity (Kg/m ³)	1.120 - 1.140	930 – 950
Viscosity at 25° C mPas	250 - 350	40 - 60

Storage stability** months

12

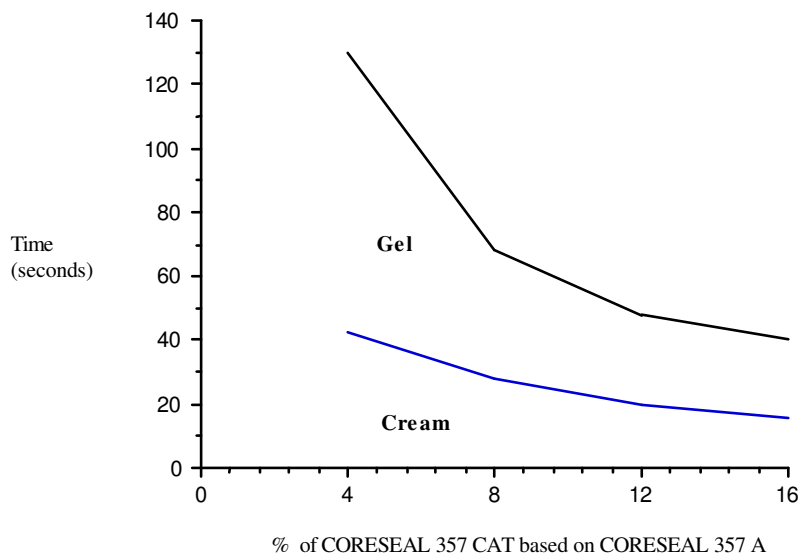
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** in well sealed drums



OPERATIONAL DATA

- * To prevent condensation on the liquids at the start of work, the temperature of the components should be at least as high as the ambient temperature.
- * All opened drums of CORESEAL 357A or CORESEAL 358 CAT should be purged with dry nitrogen and capped when not in use.
- * To get a controlled reaction with the water the gel time can be adjusted by adding the catalyst CORESEAL 357 CAT to the CORESEAL 357A in accordance with the graph detailed below.



To check the reaction we advise the following test recipe:

100 parts by weight CORESEAL 357 A
x parts by weight CORESEAL 357 CAT (see graph)
20 parts by weight water

- * Add an amount of CORESEAL 357 CAT to the CORESEAL 357A (avoid mixing humid air into this material) and mix effectively.
- * Add water, according to the recipe, to the above blend and mix.
- * To measure the cream and the gel time use the following procedure:



- the start time (point 0) is the time after water is added and mixing starts.
- the cream time is the time at which the mix starts foaming.
- the gel time is the time the reaction is completed and no further expansion is noted.

Depending on the velocity of the running water, or the amount of water expected in a crack, the gel time should be fixed before injection.

The blend can then be pumped by the use of a single component injection pump equipped for higher pressures to withstand the water pressure.

After the injection is completed the pump must be cleaned with **CORESEAL SOL** (These products may not contain water).

STORAGE AND HANDLING BUILD CORE CHEMICALS COMPOUNDS

The Build Core Chemicals compounds are very stable materials when properly handled.

To avoid problems, it is very important to understand that these materials are both temperature and moisture sensitive. Therefore, materials should be stored in an area with temperatures not **exceeding 40°C or not lower than 10°C**.

All part used drums should be covered by nitrogen and re-sealed to prevent the ingress of moisture.

HEALTH PRECAUTIONS

Ordinary hygienic principles, such as washing the compounds from the hands before eating or smoking should be observed. Hands should be washed with a waterless cleaner followed by soap and water. Avoid breathing of vapours, prolonged contact with the skin, contact with open breaks in the skin, and ingestion. Use CORESEAL 357A/ CORESEAL 357 CAT with adequate ventilation. (Refer to Build Core Chemicals Material Safety Data report RO 010E).

All information contained herewith is based on practical experience and reliable laboratory evaluation. Nevertheless, we cannot assume responsibility for its utilization, the circumstances under which the products are stored, handled and used being beyond our control.

For detailed information and advice, our technical staff are always pleased to be of service.