



Technical Data Sheet
Europe, Middle East, Africa and India

AQUASET™ BI-800

THERMOSETTING ACRYLIC BINDER FOR MINERAL WOOL INSULATION

Product Description

AQUASET™ BI-800 is a thermosetting acrylic binder made without formaldehyde or formaldehyde generating materials and does not release formaldehyde under normal operating conditions. It is designed as a replacement for formaldehyde thermosetting resins such as melamine, phenol, and urea formaldehyde. AQUASET™ BI-800 is recommended as a binder for mineral wool insulation, comprising building insulation and specialty/industrial insulation such as for ovens, pipes, automotive.

Application and Advantages

AQUASET™ BI-800 can be cured at comparable temperatures to those of formaldehyde resins. A temperature of at least 190°C is recommended to achieve maximum strength properties. At conventional use levels, the tensile properties, durability performance, and flame response characteristics of AQUASET™ BI-800 are comparable to those of industry standard formaldehyde resins. Even after being subjected to high temperatures often encountered in use, this polymer retains its strength characteristics. In contrast to formaldehyde resins, even at high temperature needed for curing, this acrylic binder will impart very little color to the substrate. Also, unlike formaldehyde resins, AQUASET™ BI-800 does not have to be stored under refrigeration and can be kept at room temperature without concern about instability.

Typical Properties¹⁾

Appearance	Clean amber solution
Solids content	54...56 %
Density	1.2 g/cm ³
Viscosity (Brookfield LV, spindle 2 @ 6 rpm, 25°C)	Max 300 mPa·s
pH	2.2 ... 3.0

1) Please note that the values shown are typical values for your guidance. They are not to be taken as specifications and are subject to certain variability. Please consult the sales specifications for details.

Health and Safety Considerations

Safety Data Sheets (SDS) are available from The Dow Chemical Company. SDS are provided to help customers satisfy their own handling, safety and disposal needs and those that may be required by locally applicable health and safety regulations. SDS are updated regularly, therefore, please request and review the

most current SDS before handling or using any product. For further questions consult your Dow contact person.

Storage and Handling

AQUASET™ BI-800 should be stored at temperatures between 5°C and 40°C in tightly sealed containers. Local legislation on storage must be followed.

We recommend using the product under safety precautions as described in the SDS. Avoid contact with eyes and skin. Large quantities should be handled in a correctly ventilated area. Material can create slippery conditions.

As the product contains water and has low pH corrosion-resistance equipment should be used for processing.

Additional Information

For more information you may call the following numbers:

International Toll-Free

00800-3-694-6367

International Toll-Free from:
Austria, Belgium, Denmark, Finland (prefix 990), France,
Germany, Hungary, Ireland, Netherlands, Norway, Portugal,
Spain, Sweden, Switzerland, United Kingdom.

EMEI Toll Call

0031-11567-2626

Italy Toll-Free National

00800-783-825

South Africa Toll-Free National

00800-99-5078

NOTICE: No freedom from infringement of any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. The product shown in this literature may not be available for sale and/or available in all geographies where Dow is represented. The claims made may not have been approved for use in all countries. Dow assumes no obligation or liability for the information in this document. References to "Dow" or the "Company" mean the Dow legal entity selling the products to Customer unless otherwise expressly noted. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.