



Standard Guideline for Handling, Transporting, Shipping, Storage, and Application of ROCKWOOL ProRox Insulation Material.

1.0 Scope

This standard guideline is intended to provide guidance in the handling, transporting, shipping, storage, and application of ROCKWOOL ProRox insulating materials.

2.0 Significance and Use

- a) ROCKWOOL ProRox products, made from an almost inexhaustible common source – stone, are designed to offer effective protection and optimal insulation performance for the entire life cycle of the installation.
- b) Some guidelines and precautions to ensure the effective performance of ProRox products:
 - i. Correct and appropriate usage of the product as stated in the relevant data sheets and any additional recommended guidance.
 - ii. Appropriate attachment and protection of the product, giving due regard to intended application.
 - iii. A high standard of workmanship being employed throughout product installation.
 - iv. The product not being disturbed or otherwise damaged subsequent to installation.
 - v. Any force majeure.

3.0 Handling, Transporting, Shipping

- a) All handling and transporting of insulation materials shall be done in a manner that will prevent/ minimize the contamination from external sources.
- b) Handling of insulation materials with bare hands is to be avoided. While taking and handling the products, clean polyethylene gloves are to be worn to avoid contamination from perspiration.
- c) Use gloves to protect from mechanical injury. Selection of gloves will depend on the system. For austenitic stainless steel applications, use gloves that contain no chloride compounds

- d) Provisions and responsibility for special transportation or packaging shall be agreed upon between the purchaser and the seller or manufacturer
- e) Where possible, qualified and unqualified materials shall be kept physically segregated. Where conditions make it necessary to have both qualified and unqualified materials of the same type at the job site, storage area or in the same shipment, all qualified materials must be clearly identifiable from unqualified materials.

4.0 Storage

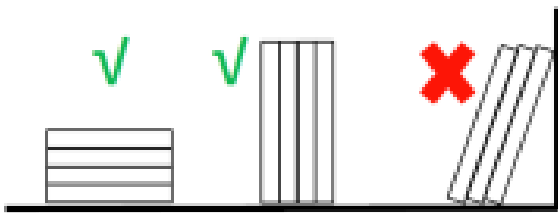
- a) All insulation materials shall be stored in a manner that will prevent/minimize contamination from external sources and protect the materials from moisture and weather.
- b) Ambient conditions can drastically vary from one location to another. Protective storage should be strongly emphasized in geographies that experience high humidity.
- c) Insulation materials (such as pipe sections) packaged in cardboard boxes shall be stored indoors (or a properly protected storage area).
- d) It is recommended that insulation materials (such as slabs or mats) packaged on pallets protected by plastic/polyethylene wrap be stored indoors, but can be stored outdoors for up to 1 month when necessary. While packaging will provide some protection, care should be taken to keep the material dry at all times (including condensation). Extended exposure can also change the color of the foil and make the label/package less legible.
- e) Storage buildings shall be situated and constructed so that they will not be subject to flooding. The floor shall be paved, or equal, and well drained.
- f) Insulation materials shall be placed on non-contaminated pallets or shoring to prevent direction contact with the ground or floor.
- g) Products are not to be stored with direct exposure to wet condition (e.g. water, rains, frost etc.) nor near the heat source and direct sunlight. This is to prevent water ingress and condensation of humidity inside the packs as well as to prevent the deterioration of packaging foil by UV-light.

Disclaimer: This guideline does not intend to address all safety concerns, if any, associated with its use. It is the responsibility of the user to establish appropriate safety and health practices and to ensure the proper usage of the products.

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- h) Storage of materials in non-ventilated areas, such as containers or warehouses for long hours while they are fully wrapped with tarpaulin, is not advised.
- i) Insulation materials shall be stored on a flat surface in horizontal position (flat) or vertical position (standing). Stacking of materials more than 3 pallets high is prohibited.

application to further reduce the risk of contamination. Additional inspection is recommended in critical applications such as pressure vessels, or when contamination is suspected by visual examination.



5.0 Application Precautions

- a) Piping/equipment shall be free of all contaminants, foreign substances, and moisture/frost before insulation is applied. Precautions shall also be taken to prevent their entrance during and after the installation.
- b) Any material suspected of being contaminated during the application shall not be used and be clearly marked and set aside for further testing, disposal, or used as unqualified material.
- c) It is recommended that all insulation material be delivered to the project location in its original (unbroken) factory packaging labelled with product description, to minimize frequency of handling and to prevent potential damages
- d) Tools used during handling and installation shall be thoroughly cleaned and dried prior to use so as not to reduce the possible contamination to the insulation materials.
- e) Stepping directly on non-load bearing products is strongly prohibited.
- f) Both installed and uninstalled products shall be protected from moisture and direct exposure to weather
- g) Insulation and accessory materials should be inspected at various stages prior to