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Scandiquick Powder/Liquid

AGB8815 & AGB8816

Instructions for use

Scandiquick is a cold setting acrylic resin, specially developed for metallographic embedding. It consists of one powder (Scandiquick A) and one liquid (Scandiquick B) and the polymerised block has a light orange, slightly transparent appearance.

Properties

Scandiquick can be poured for three minutes after mixing the components, and will set very quickly after a further three minutes. Using Scandiquick implies fast, simple handling. Curing does not require pressure, heat or any other special conditions and gives excellent bonding to the sample. It can be ground and polished easily and is resistant to almost all acids and solutions found in laboratories.

Especially hard surfaces can be produced using a hardening adjuster such as Scandia's Aequidur, available in three strengths to produce varying degrees of hardness. Scandiquick will only swell in chlorinated hydrocarbons, ketones and esters.

Processing

Good cleaning and degreasing is necessary to ensure effective bonding. Benzene or trichlorethane can be used for this purpose although Scan-Dia Cleantite is particularly recommended for cleaning. Silicone rubber moulds are recommended for embedding. Ensure that there is a 2mm gap between the sample and the inside of the mould. Scan-Dia's rubber moulds, Scandiforms are particularly useful for this purpose. Scandiquick should be mixed in a ratio of 2 parts Scandiquick A (powder) to 1 part Scandiquick B (liquid). Two measuring spoons are provided for this purpose. Scandiquick can also be mixed by weight in a ratio of 10 parts Scandiquick A (powder) to 6 parts Scandiquick B (liquid), using special mixing cups provided for Scandia resins. Place the liquid into the mixing cup. Sprinkle the powder on top. Stir both components thoroughly using a glass stirrer, until they are thoroughly mixed. Pour 2-3mm layer of Scandiquick into the embedding mould, then place the sample in the mould using a pair of tweezers.
Press the sample down, allowing any air bubbles to escape to the surface and secure the sample at the bottom of the mould. Fill the rest of the mould with Scandiquick, leaving a 1mm gap at the top.

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General Information

The maximum temperature during curing ranges from 90-110 C depending upon the size of sample used.

Scandiquick should be stored in a cool, dry environment and will last for at least 6 months if stored at 20 C. Containers should be tightly sealed.

This product is not detrimental to health and does not endanger the environment. It should be marked “xn” (minimally toxic) and “f” (easily flammable).

Scandiquick should be used in a well-ventilated workplace, away from sources of fire.

Do not dispose of Scandiquick through water or drainage systems.