

General

UCA7 is a powder based product, consisting of a blend of specially selected powder compounds. It is specifically designed as a highly portable and economical alternative to standard water-based couplants.

UCA7 on dilution forms a thixotropic gel mixture which stays in position when applied and does not drip or run from the part under test. The excellent wetting properties ensure free and even movement of ultrasonic probes over both rough and smooth surfaces with immediate and excellent acoustic transmission.

Due to the presence of special organic corrosion inhibitors, the product will not corrode most metals. The product is low in sulphur and halogens and essentially ash free on ignition (see Typical Properties below).

UCA7 is water-based. On dilution, it contains no powerful solvents and is therefore without effect on painted surfaces, plastics, synthetic or natural rubbers.

UCA7 contains a small amount of fluorescent red pigment to facilitate complete removal after testing

UCA7 contains no known toxic ingredient and the effect on skin is negligible. The presence of surface-active agents could exert a slight defatting effect on persistent or prolonged contact; this may be avoided by the application of a barrier cream.

Method of Use

UCA7 is normally applied by hand or with a soft bristle brush. It is completely soluble in water and can be readily removed by washing with water. Where the use of water is not convenient or practical, UCA7 can be removed with alcohol, acetone or a similar solvent.

UCA7 is normally diluted in water at a concentration of 50 grams per litre, though the consistency of gel can be adjusted to suit by varying the powder addition. The mixture should be allowed to stand for 3-5 minutes and then be re-stirred in order to achieve maximum viscosity.

UCA7 working temperature range of dilution: 0 to 50 °C. Above 50 °C, some evaporation of water will take place on prolonged exposure.

UCA7 is non flammable.

Typical Properties (not a specification)

Form:	red powder
Density:	approx. 0.7 g/cm ³ (bulk at 20 °C)
Sulphur:	<50 ppm
Chlorine:	<50 ppm
Fluorine:	<10 ppm
Bromine:	<10ppm
Ash:	<0.1%

Analysis according to ASME Boiler Code 1983 Edition, Section 5.
Sulphur determined by ASTM D-129 or allowed alternative.
Halogens determined by ASTM 0-1598.

Storage

Storage Temperature: 5 – 40 °C
Protect against water.

Safety guidance

Before operating the process described it is important that this complete document, together with any relevant Safety Data sheets, be read and understood.

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