



## An Advanced Subsea Marker

High Visibility, Antifouling Underwater Markers

### *C.TAG/® UW2 Adhesive Fixing Instructions*

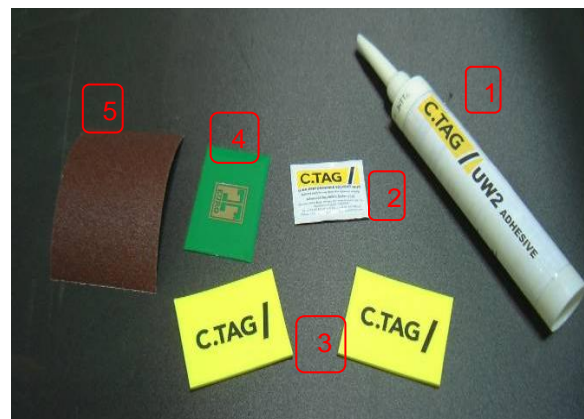


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### 1. Components supplied for conducting adhesive fixing of markers

1. C.TAG/® UW2 ADHESIVE SUPPLIED AS A 380ml CARTRIDGE COMPLETE WITH NOZZLE
2. DEGREASING WIPES
3. C.TAG/® MARKERS
4. GLUE SPREADER
5. 60/100 GRIT SANDPAPER



### 2. Surface Preparation for Adhesive Fixing

#### **Steel (uncoated):**

Mark position of marker and shot blast an area 25mm larger all round to Sa2½ to Sa3. Clean the blasted area of grit and dust, ensure it is dry and use C.TAG/® degreasing wipes before applying adhesive.

#### **Steel (epoxy coated):**

Ensure the surface to be coated is dirt, dust and grease free. Lightly abrade with 60 / 100 grit paper and use degreasing wipes prior to fixing the marker.

#### **Galvanised steel:**

Ensure the surface is free of dirt, dust, oil and grease and use degreasing wipes.

#### **Concrete:**

The concrete should be in sound condition with any loose material and dust removed. Ensure surface is dry prior to applying adhesive.

### 3. C.TAG/® Preparation

The black PVC backing of the marker will be supplied ready abraded, but should be cleaned, using degreasing wipes, to ensure the surface is grease and oil free.

### 4. Preparation and bonding process



1. Marking out around the marker, ready for masking off the area to be bonded.



2. Glueing area masked off



3. Abrade the substrate area to be glued



4. De-grease substrate surface to be bonded

Note:- All C.TAG/® markers are supplied pre-abraded



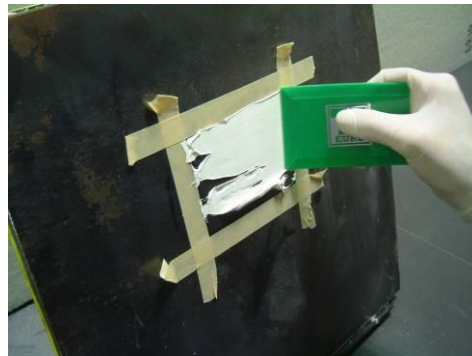
5. De-grease the back of the C.TAG/® to be bonded



6. Applying C.TAG/® UW2 adhesive from the cartridge  
Nozzle ends should be cut to allow a proportionate amount of adhesive to be applied to the prepared substrate area.



7. Once the adhesive is dispensed .....



8. ....spread evenly around the pre – masked area, to a depth of 1 – 2 mm

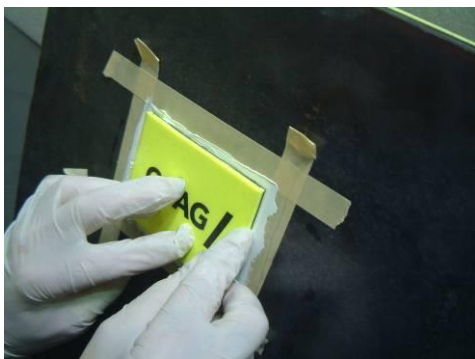


9. Ensure the adhesive overlaps the masking to avoid any bare areas of substrate.

**\*\*The C.TAG/® marker should be fitted within five minutes of spreading the adhesive.**



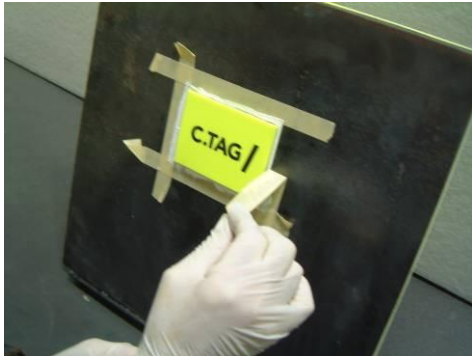
10. Check marker orientation; align the C.TAG/® with an edge tape, leaving a 1-2 mm gap.....



11. ....as the marker is lowered into place, follow along behind smoothing / pressing the marker face down to remove any entrapped air.



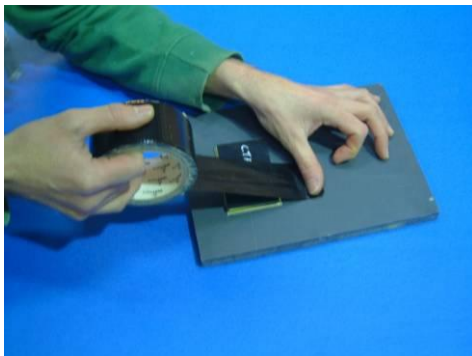
12. A roller can be also used to ensure 100% contact between C.TAG/® marker and substrate.



13. Once the C.TAG/® is correctly finished / positioned, smooth the bead of adhesive off so that a fillet is generated, then the masking can be peeled off



14. C.TAG/® fitting completed



15. Taping the protective cover on temporarily to hold the marker while the adhesive cures.



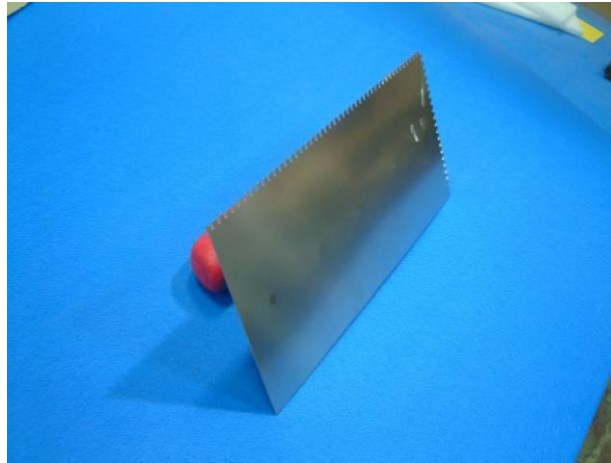
16. After checking the marker has bonded correctly, and final cleaning of the marker face, the cover is taped in place until the structure is ready for deployment.

**N.B. be sure to remove the protective covers before the equipment goes subsea.**

Once cure has taken place the temporary vinyl tape supporting the marker can be removed and the black fabric tape supplied used to hold the protective cover in place by applying it to each edge of the marker. This will help prevent ingress of dirt etc. onto the marker face, as well as prevent UV light degradation of the yellow surface of the marker. It will also give some protection from weld spatter and other mechanical damage. A soft rag moistened with white spirit can be used to clean the surface of the marker of any light contamination that may occur.

## 5. Fitting of large markers

If larger markers are to be fitted it is recommended that a larger trowel is used for spreading the adhesive, which has serrated teeth on one edge. The use of the serrated teeth across the surface of the glue will both level the adhesive and put tracks into the glue surface that will aid the removal of air pockets from between the marker back and glued surface (see photo below).



## 6. Waste disposal

All materials can be disposed of as non-hazardous waste.

## 7. C.TAG/® UW2 ADHESIVE - TECHNICAL DATA SHEET

### **Description**

C.TAG/ UW2 adhesive is a one part high modulus modified polymer adhesive / sealant which cures on exposure to moisture vapour to form a tough but elastic rubber.

### **Main Applications**

C.TAG/® UW2 is recommended for fixing C.TAG/ markers to equipment and structures intended for use subsea.

### **Application Instructions**

The joint surfaces must be clean, dry and free from all contamination. The surfaces should be degreased using the solvent wipes provided. Primers may be required on some substrates, other than those described in this document. It is recommended that Advance Insulation Systems Ltd Technical Dept. be consulted and advice obtained with regard to the choice of primer for specific purposes.

### **Application**

C.TAG/® UW2 adhesive is supplied in polyethylene 380ml cartridges.

### **Joint thickness**

1mm to 2mm

### **Coverage**

Approx. 1litre / m<sup>2</sup> dependant on surface conditions.

### **Packaging**

380ml Polyethylene Cartridges. Polyethylene Nozzles are included with each cartridge.

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**Colours**

White.

**Storage Life**

12 months in original unopened packaging stored in a cool, dry place out of direct sunlight.

**Health and Safety**

No particular health hazards are associated with this product but please consult Material Safety Data Sheet for full information.

**Technical Data**

Skin Time at 20° C/65 % RH: 15 minutes

Application Temperature: + 5° C to + 35° C

Service Temperature: - 40° C to + 120° C

Typical Shore A Hardness: 55

Cure Rate at 20° C/65 % RH: 2mm/24 hours

Chemical Resistance: Resistant to most dilute acids and alkalis. Organic solvents may cause the sealant to swell and lose adhesion. Strong cleaning agents can cause surface deterioration and may affect the efficiency of the material.

UV Resistance: Very Good

Service Life: 20 years +

Modulus @ 100 % extension: 1.12 N/mm<sup>2</sup>

Ultimate elongation: 220%

Tensile strength @ break: 1.85 N/mm<sup>2</sup>

**Manufactured for:**

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