

## 2K, Aliphatic, UV stable, Epoxy Hybrid Coating.

<b>PRODUCT DESCRIPTION</b>	JEMGUARD 900 is a two component, aliphatic, UV stable, water-based epoxy hybrid Coating used for wall, floor, terrace, etc.
<b>WHERE TO USE</b>	Applied to wood, plaster, Steel, concrete, screeds or epoxy resin systems. 
<b>CHARACTERISTICS/ ADVANTAGES</b>	UV resistant – non yellowing Good abrasion resistance Hard wearing Low VOC Low odour Easy to apply Easy to clean and maintain
<b>APPEARANCE / COLOUR</b>	Part A - Resin : White, liquid Part B - Hardener : Colored liquid (as per Jemkon Shade card)
<b>PACKAGING</b>	2, 10 & 20 kgs
<b>STORAGE / SHELF LIFE</b>	24 months from date of production if stored in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between +5°C and +35°C.
<b>CHEMICAL BASE</b>	Epoxy Hybrid
<b>DENSITY</b>	Mixed: ~1.15 to 1.20 g/cc
<b>MECHANICAL / PHYSICAL PROPERTIES</b>	
<b>ABRASION RESISTANCE</b>	25 mg Weight loss (Wheel CS 17, 1 kg load, 1000 cycles)
<b>TENSILE STRENGTH</b>	~ 14.68 MPa (ASTM D 882)
<b>SHORE HARDNESS D</b>	90
<b>ADHESION</b>	~ 10.2 Mpa (Astm D 4541)
<b>CHIP RESISTANCE</b>	Excellent
<b>APPLICATION DETAILS</b>	
<b>CONSUMPTION /DOSAGE</b>	JEMGUARD 900 ~ 0.1 Kg/m <sup>2</sup> for 1 coat @ 50 micron thickness. (2 coats recommended)
<b>SUBSTRATE QUALITY</b>	The concrete substrate must be sound and of sufficient compressive Strength (minimum 25 N/mm <sup>2</sup> ) with a minimum pull off strength of 1.5 N/mm <sup>2</sup> . The substrate must be free of all contaminants such as oil, grease, coatings and surface treatments etc. If in doubt, apply a test area first.
<b>SUBSTRATE PREPARATION</b>	Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface. Weak concrete must be removed and surface defects such as blow holes and voids must be fully exposed. Repairs to the substrate, filling of blowholes/voids and surface levelling must be carried out using appropriate Jemkon products. High spots can be removed by grinding. All dust & loose material must be completely removed from all surfaces before application of the product, preferably by brush or vacuum.
<b>SUBSTRATE TEMPERATURE</b>	+8°C min. / +40°C max.

**MIXING**

Stir Component A (Resin) and Component B (Hardner) first individually for approx. 15 seconds to remove any settling. Only mix the required quantity for application as per ratio given on the container. Mix for 1 to 2 minutes until the mixture is homogeneous and the material is uniformly dispersed.

Over mixing must be avoided to minimise air entrainment.

Use a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.

**APPLICATION PROCESS & TOOLS**

Prior to application, confirm substrate moisture content.

If > 4% moisture content, Jemkon Tuffcem may be applied as a Temporary Moisture Barrier (TMB) system.

Make sure that a continuous, pore free coat covers the substrate.

Apply JEMGUARD 900 by brush, roller or spray.

**RECOMMENDED UNDERCOATS & OVERCOATS**

Primer : Tech 24/ Tuffcem 50

Top coat : JEMGUARD 900/ Aquathane

**CLEANING OF TOOLS**

Clean all tools and application equipment with Clean water immediately after use.

**CURING DETAILS**
**POT LIFE**

Temperatures	Time
+25°C	~ 50 minutes

**WAITING TIME/OVERCOATING**

Temperatures	Minimum	Maximum
+25°C	2 Hours	24 Hours
(Optional) Light sanding advised after maximum time.		

**APPLIED PRODUCT READY FOR USE**

Temperatures	Minimum	Maximum
+25°C	24 Hours	-

Times are approximate & will be affected by changing ambient & substrate conditions.

**CLEANING/ MAINTENANCE**

Spillage of any kind should be cleaned quickly.

Use mild detergent & water to clean the coating regularly.

Scrubbing can be done by using soft bristles.

**VALUE BASE**

All technical data stated in this technical Data Sheet are based on laboratory tests.

Actual measured data may vary due to circumstances beyond our control.

**HEALTH AND SAFETY**

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

**LEGAL NOTES**

The information, and, in particular, the recommendations relating to the application and end-use of Jemkon's products, are given in good faith based on Jemkon's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Jemkon's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Jemkon reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Technical Data Sheet for the product concerned, copies of which will be supplied on request.