

Technical Data Sheet

Edition : 30/08/2016

VER : 01

JEMGUARD 900

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Two Component, Aliphatic, WB, Epoxy Hybrid Clear Coating

Product Description JEMGUARD 900 is a two component, aliphatic, UV stable, water-based epoxy hybrid Clear Coating.

Where to Use Typically used as a UV stable, Clear Coat applied to wood, plaster, concrete, screeds or epoxy resin systems.



Characteristics/ Advantages UV resistant – non yellowing
Good abrasion resistance
Hard wearing
Low VOC
Low odour
Easy to apply
Easy to clean and maintain

Appearance / Colour Part A - Resin : coloured, liquid (as per Jemkon Shade card)
Part B - Hardener : cleared, liquid

Packaging 2 & 10 kgs

Storage Conditions / Shelf Life 12 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.

Chemical Base Epoxy Hybrid

Density mixed: ~1.15 to 1.20 g/cc

Mechanical / Physical Properties

Surface Hardness 80 (Shore D)

Abrasion Resistance Taber Abrader: 0.1g loss per 1000 cycles (1kg load using CS17 wheels)



UV Light Resistance	excellent >10 N/mm² (BS 6319)
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Temperature Resitance	Tolerant up to 65°C	60% (BS 6319)
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Bond Strength	Greater than cohesive strength of 25N/mm ² concrete. >1.5 MPa.
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Application Details

Consumption / Dosage	JEMGUARD 900~ 0.125 - 0.150 kg/m ² @ 50–75 micron for 1 coat (2 coats recommended)
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Substrate Quality	The substrate must be sound and of sufficient compressive Strength (minimum 25 N/mm ²) with a minimum pull off strength of 1.5 N/mm ² . 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.
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Substrate Preparation	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.
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Substrate Temperature	+10°C min. / +40°C max.
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Mixing	Prior to mixing, stir part A mechanically. When all of part B has been added to part A, mix continuously for 1 to 2 minutes until a uniform mix has been achieved. Only mix the required quantity for application as per ratio given on the container. Over mixing must be avoided to minimise air entrainment. JEMGUARD 900 must be thoroughly mixed using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.
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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 : AQUAFLO 2525 / JEMGUARD 900
 Top coat : JEMGUARD 900

Cleaning of Tools

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

Potlife

Temperatures	Time
+25°C	~ 60 minutes

Waiting Time / Overcoating

Substrate temperature	Waiting time	
	Minimum	Maximum
+25°C	8 hours	24 hours Light sanding required after maximum time.

Curing Details**Applied Product ready for use**

Substrate temperature	Waiting time	
	Minimum	Maximum
+25°C	24 hours	-

Note: Times are approximate and will be affected by changing Ambient and 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.

