



# syntha pulvin

## **THE SYNTHA PULVIN SYSTEM IN SWIMMING POOL ENVIRONMENTS**

Since the early seventies the Syntha Pulvin System has been used successfully in chlorinated atmospheres as found in swimming pool areas. Two of many such examples are the Vale of Glamorgan Leisure Centre, and the Spennymoor Leisure Pool, for Sedgefield District Council. On these projects the Syntha Pulvin System was specified for aluminium window and doorframes, screens, balustrades, exterior cladding, guttering and brackets.

Inspections of the above buildings have shown no signs of coating failure and support the suitability of the Syntha Pulvin System in such environments.

In addition to the practical experience gained from these and other similar contracts, laboratory tests have been carried out whereby Syntha Pulvin coated panels were immersed in chlorinated water, as used in the potentially more hazardous swimming pools, for a period of 650 hours, with the water at a constant temperature of 60°C. The test was terminated with no discernible effect on the coating.

In addition, recent methods of disinfection have led to reductions in the levels of chlorination used in swimming pools and the introduction of ozone and ultra violet light as alternative means of ensuring water quality. The Syntha Pulvin System is equally resistant to these methods of pool hygiene.

Valspar is prepared to consider guarantees for projects in swimming pool environments on an individual basis, but the following minimum additional requirements should be noted.

### 1. **Film Thickness**

The **minimum** film thickness of the Syntha Pulvin coating on all significant surfaces, must be increased to **60 microns** (applies to all substrates).

### 2. **Water Traps**

There shall be no water traps in the design of the windows, curtain walling or any other Syntha Pulvin coated components.

### 3. **Pool Contents**

Information is required on water composition and operating conditions prior to any Guarantee being given (see attached form).



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## 4. **Jig Points**

These should be avoided wherever possible and in any case only allowed on secondary or unseen surfaces. It is recommended where jig marks occur these should be given remedial treatment after assembly and prior to installation (See Repair Procedure for Syntha Pulvin TAS13).

## 5. **Mechanical Processes**

Whilst every endeavour should be made to avoid any crimping, punching, drilling and sawing etc. after coating, it is recognised a limited amount of work may occur. Where this is the case remedial treatment (See Repair Procedure for Syntha Pulvin TAS13) should take place immediately and suitable inserts must be used to isolate the untreated aluminium from the atmosphere, i.e. drainage slots, etc. Where possible, cut edges should be coated using a suitable coating system prior to assembly and installation. The chosen product manufacturer should confirm suitability for this system. Bare metal edges should be avoided.

## 6. **Damage**

Where damage to the coating occurs, it must be repaired immediately. Should damage occur during fabrication or on site, it is necessary to apply a repair procedure (See Repair Procedure for Syntha Pulvin) immediately. It is suggested that this is carried out by the fabricator/installer.

## 7. **Cleaning**

Cleaning should take place at intervals not exceeding 3 months, with fully documented records being maintained throughout any Guarantee period.

It should be noted that the initial cleaning cycle shall commence at a maximum of 3 months after the first component is installed (See Syntha Pulvin TAS11).

## 8. **Low Tack Tapes**

Where it is necessary to use tapes as a form of protection, these must be of a low tack quality and must not be left in contact with the surface longer than six months (See 'Use of Low Tack Self Adhesive Tapes' on Syntha Pulvin TAS9).



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## 9. **Sealants & Mastics**

Where it is necessary to use sealants and mastics on surfaces coated with the Syntha Pulvin System, reference should be made to TAS9.

## 10. **Electrolytic Cells in Fixing**

Every effort should be made to avoid the use of dissimilar metals, thereby setting up electrolytic cells. Where this is unavoidable suitable sealants/ mastics must be used to isolate the various components from each other.

## 11. **Quality Procedures**

For a Swimming Pool Guarantee to apply, the Approved Applicator will use a higher level of inspection, quality control and sampling. This inspection procedure shall be at least in accordance with BS6001 Part 1:1999 Inspection Level III (using appropriate AQL) using Normal, Reduced and Tightened Inspection as required.

## 12. **Galvanized Substrates**

The pretreatment used for galvanized substrates should be as recommended by the respective pretreatment supplier.

## 13. **Plant Rooms**

Any coated components, within swimming pool plant rooms, are expressly excluded from any guarantee offered.

## 14. **Additional Requirements**

It may be necessary, for particular projects, that following evaluation of the specific circumstances related to the project, further technical requirements are specified.

The final guarantee offer of up to 25 years will not be granted without the completion of the attached 'Swimming Pool Environment' request form and full consultation with the proposed Syntha Pulvin Applicator.

Further copies can be obtained from Valspar.



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## REQUEST FOR SWIMMING POOL ENVIRONMENT GUARANTEE

Please complete the following so that an accurate assessment can be made:

NAME OF SYNTHA PULVIN APPLICATOR	
PROJECT NAME AND ANY REF. NO.	
LOCATION INCLUDING FULL ADDRESS	
CLIENT'S NAME	
FABRICATOR'S NAME & ADDRESS	
ARCHITECT'S NAME & ADDRESS	
TYPE OF SUBSTRATE AND DETAILS OF COMPONENTS TO BE GUARANTEED, (EG. ALUMINIUM OR GALVANIZED STEEL -DOORS, WINDOWS OR HANDRAILS)	
POOL WATER TEMPERATURES - MAIN POOL	
POOL WATER TEMPERATURES - SPA POOLS	
AIR TEMPERATURE INSIDE BUILDING	
HUMIDITY LEVEL	
TYPES & CONCENTRATION OF CHEMICALS USED IN WATER.	
PRODUCT AND COLOUR REF. OF POWDER COATING AND GLOSS LEVEL, IE; GLOSS, MATT METALLIC, SYNTHATEC PREMIUM	
DISTANCE OF COATED COMPONENTS FROM POOLSIDES	
IS THE WATER TREATED WITH CHLORINE, BY UV OR OZONE ETC. STATE WHICH	

RESULT OF THIS ENQUIRY (To be completed by Valspar)

Swimming Pool Environment Guarantee  
delete where applicable

\* Granted

\* Not Granted

Once completed, this form will be marked and dated with our decision and returned to its originator with a letter of recommendation and a copy to the Approved Applicator