

# Waterproofing Compound RWPC-03

RWPC-03 is a waterproofing compound developed by VSSC for the waterproofing of silica tiles and silica felt/fabric based flexible insulations. It is an alkoxysilane based system, processed by controlled hydrolysis of siloxanes. This is an environment friendly method and imparts efficient waterproofing of the system. The treatment involves spraying the aqueous solution of an organo-polysiloxane waterproofing compound on the substrate (preferably glass and silica based) and heating them to form a waterproofed article. In the case of silica tiles and silica felt/fabrics, water absorption could be brought down from 350% to <5% and <10% respectively using this compound. It is not a conventional surface coating method and makes both surface as well as bulk of the material water resistant.

## Typical properties / characteristics:

Color and consistency	: Transparent liquid
Viscosity of water proofing compound	: <5cP
Weight increase due to water proofing	: 3% max by weight
Water absorption of water proofed silicatile	: <5 % by weight
Water absorption of water proofed flexible insulation	: <10% by weight

## Applications

RWPC-03 can potentially be used as general purpose water proofing compound for silica based components including composites.

## Technology Transfer from ISRO

ISRO is willing to offer the knowhow of this technology to suitable entrepreneurs / industries in India. Capable manufacturing industries interested in acquiring this knowhow may write with details of their present activities, requirements and plans for implementation, infrastructure and technical expertise available with them, their own market assessment, if any, and plans for diversification to the address given below.