

## TECHNICAL DATASHEET

# ASCOPROOF IW+

Integral Liquid Water proofer for Concrete, Mortar and Renders



## PRODUCT INTRODUCTION

**ASCOPROOF IW+** an integral liquid water proofer is a high performance liquid additive that provides long term protection from water damage to mortar, concrete, render and screed by dramatically reducing water permeability. It is suitable for application where resistance to water damage is necessary in concrete, mortar, external rendering points and structures below ground level. **ASCOPROOF IW+** is **Certified integral water proofer compound** .

VERSION : 1 ( DEC : 2022 )

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## KEY FEATURES

1. Reduces surface absorption.
2. Reduces water permeability of concrete & mortar mixes.
3. Increases compressive strength.
4. Increases durability of the mortar/concrete
5. Improves workability.
6. Reduces segregation.
7. Eliminates/Reduces shrinkage cracks and dampness from the concrete/mortar.
8. Easier application in any mixes.
9. Performs multiple roles of water reducer as well as waterproofing chemical.

## RECOMMENDED APPLICATIONS

### Integral Waterproofing Admixture :

1. In rendering / plastering work on all the brick walls in residential and industrial structures.
2. Underground tank, basements etc.
3. Mortar (plaster), render, screeds.
4. Terrace, swimming pool, water tank, tunnel, canal, slopping roof areas, etc.
5. External plastering work in residential & industrial structures.
6. Waterproofing admixture for bathroom, toilet, balcony, sumps and drains.

## TECHNICAL PROPERTIES *(Complies to IS 2645:2003, 9103:1999, IS 4031 :1988 ( Part 5 & 6 ), IS 6925 : 1973)*

<b>Appearance</b>	Brown liquid , specialized active ingredients
<b>Base</b>	Specialized active ingredients
<b>Specific gravity</b>	1.15 ± 0.03 Kg/l
<b>pH</b>	9 ± 2
<b>Chloride content</b>	< 0.02 %
<b>Water permeability</b>	Passing Half of the Greater than of the control specimen
<b>Initial Setting time</b>	Passing Reduction of initial setting time 25 % more than the control
<b>Final Setting time</b>	Passing Increase of final setting time more than 25 % of the control
<b>Compressive strength</b>	Passing 90 % of the control

*The values obtained are from laboratory testing conditions and at 27 ± 2°C . On site tests may show slight variation due to site conditions and / or methods of testing. Follow company TDS to obtain best results.*

## APPLICATION METHODS:

### 1. Mixing

**ASCOPROOF IW+** is ready-to-use liquid which is mixed into concrete together with water. The plasticizing effect and water reduction is higher if the admixture is added to damp concrete after 50-70% of mixing water has been added.

Add **ASCOPROOF IW+** in remaining water and pour in the mixture. Mix it for 3 minutes to achieve homogeneous mix. Cure as per normal procedure by sprinkling with water/curing compound.

### 2. Dosage

Add **ASCOPROOF IW+** to gauging water at an addition rate of 150ml per 50Kg of cement bag and mix until it is fully dispersed. Optimum dosage of the **ASCOPROOF IW+** should be pre determined with the initial trial mixes. Higher dosages may be required upon condition and requirement of concrete/ mortar.

### 3. Overdosing

Overdosing of **ASCOPROOF IW+** will increase the workability. In the case of accidental overdosing, check strength and setting time before stripping forms.

There is no significant effect on curing and other properties of concrete or mortar if the above dosage gets exceeded by 10% . Minor overdosing will have

no detrimental and long term side effects as long as it is cured correctly with water. In general 28 days strength would be improved.

## NOTES:

- i) **ASCOPROOF IW+** should be added in clean water of concrete/mortar/renders etc.
- ii) Do not add **ASCOPROOF IW+** directly to dry cement and aggregate mix.
- iii) Maintain the water-cement ratio. Lower water to cement ratio gives lower permeability concrete.
- iv) Good concrete placing and compaction is essential to produce a watertight concrete.
- v) Fresh concrete should be protected against rapid drying and cured properly.
- vi) Avoid to use it in cold joints.

### 4. Curing

There is no change in setting or curing time.

### 5. Compatibility

**ASCOPROOF IW+** is suitable for use with all types of standard or ordinary Portland cement & cement replacement materials. It can be used in combination with other ASCOLITE's admixtures to achieve its specific working requirements.

## 6. Packaging

**ASCOPROOF IW+** is available in 150ml, 1 liter, 5 liter, 20 liter, 50 liter and 200 liter sealed tub.

## 7. Shelf Life

12 months in original sealed containers when stored in dry condition at a temperature range from +5°C to 45°C.

## 8. HEALTH & SAFETY

All cautions and warnings on the product label should be followed. In case eyes or mouth are affected wash them with clean water and seek medical treatment immediately. Wear hand gloves, safety shoes and safety goggles while using and handling the product.

### DISCLAIMER:

*While the technical details & recommendations contained in this document and the related details given by the representatives of the company correspond to the best of our knowledge & experience, all the above information must in any case be considered as merely indicative and subject to confirmation. Users are recommended to conduct a product suitability test before it is used at full scale. In any case, the consumer alone is entirely liable for any consequences resulting from using the product. For the most up-to-date TDS, please visit our website at [www.ascolite.in](http://www.ascolite.in). Our company policy is one of ongoing R&D; therefore, we reserve the right to update this information without prior notice at any time. As the correct identification of the problems, the quality of other materials used, on-site environmental conditions and the workmanship on-site are factors beyond our control, there is no express or implied guarantee/warranty as to the results achieved. The company assumes no liability or consequential damage arising from the use of our products for unsatisfactory results. Site visits are not a supervisory responsibility wherever provided. Suggestions made either verbally or in writing by the company may be followed, modified or rejected by the owner, engineer or contractor, since they are solely responsible for carrying out procedures appropriate to a specific application.*