





**Construction Chemicals**, including curing with **duracure SBS** or **duracure WBC**. The grout will have a minimum one-day compressive strength of 13 MPa

## **PACKAGING**

**Duragrout** is supplied in 25 kg polyethylene lined paper bags.

## **HANDLING AND STORAGE**

The product has a shelf life of six months if kept in a dry cool place in the original packaging. In more extreme conditions this period might be shortened.

## **HEALTH & SAFETY**

**duragrout** is alkaline and should not be allowed contact with skin and eyes. Avoid inhalation of dust during mixing by wearing dust masks. The use of gloves, eye protection and dust masks is advised. Splashes into eyes should be washed immediately with plenty of clean water and medical advice sought.

Cured **duragrout** is inert and harmless.

## **IMPORTANT NOTE**

This data sheet is issued as a guide to the use of the product(s) concerned. Whilst **abe Construction Chemicals** endeavours to ensure that any advice, recommendation, specification or information is accurate and correct, the company cannot - because **abe** has no direct or continuous control over where and how **abe** products are applied - accept any liability either directly or indirectly arising from the use of **abe** products, whether or not in accordance with any advice, specification, recommendation, or information given by the company.

## **FURTHER INFORMATION**

Where other products are to be used in conjunction with this material, the relevant technical data sheets should be consulted to determine total requirements. **abe Construction Chemicals** has a wealth of technical and practical experience built up over years in the company's pursuit of excellence in building and construction technology.



## **PHYSICAL PROPERTIES**

### **SETTING TIME @ 20° C**

| WATER CONTENT | FLOW CONE | INITIAL SET | FINAL SET   |
|---------------|-----------|-------------|-------------|
| 4 l /25 kg    | 50 sec    | 1 hr 55 min | 2 hr 55 min |
| 4,5 l /25 kg  | 25 sec    | 2 hr 30 min | 3 hr 55 min |

### **COMPRESSIVE STRENGTH using 100 mm cubes – MPa**

| WATER CONTENT | 1 day | 3 days | 7 days | 28 days |
|---------------|-------|--------|--------|---------|
| 4 l /25 kg    | 20    | 45     | 55     | 67      |
| 4,5 l /25 kg  | 13    | 35     | 45     | 60      |

### **TENSILE STRENGTH by splitting 70 mm diameter specimens – MPa**

| WATER CONTENT | 7 days | 28 days |
|---------------|--------|---------|
| 4 l /25 kg    | 5,4    | 5,9     |
| 4,5 l /25 kg  | 4,5    | 5,2     |

### **FLEXURAL STRENGTH on specimens 100x100x500 mm – MPa**

| WATER CONTENT | 7 days | 28 days |
|---------------|--------|---------|
| 4 l /25 kg    | 8,3    | 10,7    |
| 4,5 l /25 kg  | 6,7    | 8,4     |

### **ADHESIVE BOND STRENGTH on 12,5 mm diameter deformed bars grouted into 50 mm diameter steel pipes with 150 mm embedment**

At seven days, bond strength between rod / grout / pipe exceeded the characteristic yield stress of the steel.

### **VOLUME CHANGE**

|                          |   |                     |       |
|--------------------------|---|---------------------|-------|
| Expansion of grout after | - | 1 hour              | 0,05% |
|                          | - | 3 days              | 0,30% |
|                          | - | 7 days              | 0,40% |
|                          | - | thereafter constant |       |

### **ABRASION RESISTANCE by Böhm test**

|             |              |
|-------------|--------------|
| Actual      | 1,15 mm wear |
| Permissible | 3 mm wear    |

### **duragrout used as a ram consistency**

|              |                  |
|--------------|------------------|
| Powder Mass  | - 25 kg          |
| Water Demand | - 3 litres       |
| Wet density  | - 2,327 kg/litre |
| Yield        | - ± 12 litres    |

### **Typical Compressive Strengths**

|         |            |
|---------|------------|
| 1 day   | - 44 MPa   |
| 3 days  | - 58 MPa   |
| 7 days  | - 62 MPa   |
| 28 days | - > 70 MPa |