



CONSTANT PERFORMANCE

ACS SUPERPLAZ 45Re

NEW AGE TECHNOLOGY WATER REDUCER

DESCRIPTION

ACS Superplaz 45Re is a new generation polycarboxylic polymer superplasticising type high range water reducing admixture for use in high performance concrete and shotcrete.

Formulated specifically to provide concrete and shotcrete mixes with extremely high water reduction in conjunction with high workability and superior slump retention.

RECOMMENDED USES

ACS Superplaz 45Re should be added to concrete and shotcrete mixes that are supplied to any project where high early age strengths are the primary stipulations. ACS Superplaz 45Re is ideally suited to concrete applications requiring extended working life to allow for possible delays or difficult placement conditions.

ACS Superplaz 45Re is highly recommended for use in shotcrete used in tunnel and underground mine construction and has been formulated to meet the complex demands of early age - rapid set shotcrete spray requirements when combined with an Alkali Free Accelerator such as, ACS Minespeed F1 or ACS Shotquick 2000 AF, added at the spray nozzle.

ACS Superplaz 45Re is also suited to all pre-mixed and precast concrete requiring high early age strength development.

FEATURES AND BENEFITS

- High workability and flow properties
- Superior Slump Retention without retardation
- High Water Reduction
- Reduced shrinkage or creep
- High early strength without the need for external heat energy for curing
- Ability to produce high density concrete with low permeability

COMPLIANCE

ACS ACS Superplaz 45Re contains no added chlorides and complies with AS1478.1 - 2000 type HWR.

TECHNICAL PROPERTIES

Colour	Light amber
Form	Liquid
Density	1.07kg ± 0.05 / litre
pH Value	5 - 6 @ 23°C ± 0.5°C
Typical Dose Rate	400 - 1200ml / per 100kg of total cementitious materials

MIXING AND APPLICATION

Add ACS Superplaz 45Re to freshly mixed concrete / shotcrete at the batch plant or onsite. Optimum performance should be determined from product trials conducted either onsite or within laboratory conditions

Batch Plant Addition

ACS ACS Superplaz 45Re should be included into the freshly batched concrete/shotcrete via calibrated dosing equipment purposely designed for this application. Optimum dose rates should be determined from prior trials conducted by laboratory technicians or culminated from advice of your ACS Mining and Tunnelling representative.

Onsite Addition

ACS ACS Superplaz 45Re can be added to the concrete / shotcrete on-site should higher workability with the concrete be required. Further mixing at a minimum of 22 revolutions per min for 4 minutes (AS1379 4.2.2.3) should be observed to ensure the added ACS ACS Superplaz 45Re is thoroughly mixed into the concrete.

PACKAGING

ACS ACS Superplaz 45Re can be supplied in 200 litre drums and 1000 litre IBCs.

STORAGE

ACS ACS Superplaz 45Re should keep for up to 12 months if the containers remain sealed. Any product outside the date range should be tested for uniformity prior to use. Contact your ACS Mining and Tunnelling representative for advice.

CLEANING

Any spillage or leakage can be washed and diluted with water. Extreme caution should be considered to contain any spills or leaks and not allow any product to enter water ways as per the ACS ACS Superplaz 45Re SDS.

HEALTH AND SAFETY

During use, avoid inhalation of dust and contact with the skin and eyes. Wear suitable clothing, gloves, eye protection and respiratory protective equipment.

If contact with the skin occurs, thoroughly clean the area with plenty of fresh water and soap. In case of contact with the eyes rinse with plenty of fresh water and seek medical advice.

If swallowed, seek medical attention immediately - do not induce vomiting.

For further information consult the Material Safety Data Sheet (MSDS) and read the product label carefully before use.

MSDS documents are available by phoning 1800 077 744.



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PLEASE NOTE

The information given in this data sheet is based on our current knowledge of the product when properly stored, handled and applied. We cannot guarantee that the product will be suitable, effective or safe when used for any purpose other than its stated uses.

To the extent that it is lawful, we exclude warranties implied by law and limit our liability to the cost of replacing the product. We accept no responsibility for loss or injury caused by improper use, incompetent preparation, inexperienced or negligent application, or ordinary wear and tear.

Service or advice given by our staff should not amount to responsibility for the project - since the owner, or their contractor (and not River Sands), is responsible for procedures relating to the application of the product.

APPLIED CONCRETE SOLUTIONS
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