

# SAFETY DATA SHEET

## SD72—COLOUR HARDENER



<b>PRODUCT NAME</b>	<b>ADSEAL COLOUR HARDENER</b>
	A ready to use, coloured dry-shake cementitious product for colouring and hardening freshly placed concrete. See Technical Data Sheet TD72 for suitable Applications of this product.
<b>COMPOSITION / INFORMATION ON INGREDIENTS</b>	
This product is a mixture of silica crystalline quartz, pigments and cement.	
<b>HAZARDS IDENTIFICATION</b>	
Portland Cement 35-45% CAS/ECOI No: 659997-15-1 Xi - IRRITANT	
Main Hazards	None
Human Health	Dust may induce mild or temporary upper respirator irritation with cough and shortness of Breath.
Environmental	No significant environmental effects are anticipated.
<b>FIRST AID MEASURES</b>	
SKIN	Rinse skin free of material with water to avoid abrasion of the skin. DO NOT RUB until skin is Free of material. Then wash with soap and water.
EYES	Wash eyes with plenty of clean water and seek medical advice. DO NOT RUB EYES.
INGESTION	Wash out the mouth with plenty of clean water. Then drink copious quantities of drinking Water. DO NOT induce vomiting.
MEDICAL NOTE	Mucosal injury following ingestion of this material may contra-indicate the induction of Vomiting in the treatment of possible ingestion.
INHALATION	Remove to refresh air. If coughing, irritation, difficulty in breathing or other respiratory Symptoms develop, seek medical advice.
OTHER INFORMATION	Contaminated clothing should be removed and washed before re-use.
<b>FIRE-FIGHTING MEASURES</b>	
EXTINGUISHING MEDIA NA	
<b>SPECIAL FIRE FIGHTING PROCEDURES</b> NA	
<u>NOTE</u>	Material does not burn or support combustion. However, under certain conditions, heat from hydration may be sufficient to cause combustible materials to ignite.
<b>ACCIDENTAL RELEASE MEASURES</b>	
Collect Spilled Powder and place in containers. Shovel into waste containers. Avoid generating dust. Do not wash away into water courses or into drains.	
PRECAUTIONS :- Avoid breathing dust, skin and eye contact	

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## HANDLING AND STORAGE

Store in a cool, dry area off the ground. Avoid contact with acids and other oxidizers. When the material is mixed with water, alkali is released. Continued skin contact during a working day can result in 'cement burns' with ulceration. Repeated skin contact over a period may cause irritant contact dermatitis.

## EXPOSURE CONTROL / PERSONAL PROTECTION

**HYGIENE** It should become standard routine to wash thoroughly:  
After work - Before Smoking - before Eating or Drinking - Before using the Lavatory

### RESPIRATORY PROTECTION

Where possible, use local exhaust to keep dust levels down to below threshold limit values.

### PERSONAL PROTECTIVE EQUIPMENT

**Dust Mask** Respiratory protection should be worn to prevent inhalation.  
**Hand Protection** Rubber gloves should be worn to prevent skin contact.  
**Eye Protection** Light goggles should be worn to prevent eye contact.  
**General** Full overalls, boots and barrier cream are suggested

## PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	-	Colored, free flowing, gritty powder.
ODOUR	-	No smell.
pH (1% in water)	-	11-12
BOILING POINT/BOILING RANGE	NA	
MELTING POINT/MELTING RANGE	NA	
FLASH POINT (METHOD USED)	NA	
FLAMMABILITY		Does not burn
AUTO FLAMMABILITY		Does not burn
EXPLOSIVE PROPERTIES	NA	
OXIDISING PROPERTIES	NA	
VAPOUR PRESSURE		Solid at all service temperature
RELATIVE DENSITY		2.7-3.0 (WATER=1)
SOLUBILITY		Slightly soluble in water
PARTITION COEFFICIENT	NA	

## STABILITY AND REACTIVITY

**STABILITY** Product reacts (hydrates) at a slow, controlled rate when mixed with water, releasing Minimal heat. Not a hazardous reaction.

**MATERIALS TO AVOID** Strong oxidizing agents such as inorganic acids and strong organic acids. Acids will react with cement and carbonates.

**HAZARDOUS DECOMPOSITION PRODUCTS** None.

## TOXICOLOGICAL INFORMATION

The Silica sand present in the product contains between 80-99.50% crystalline quartz. The sand is produced after washing and therefore contains minimal amounts of respirable quartz. However, the respirable fraction could, if inhaled over a prolonged period, constitute a health hazard. Inhalation of respirable quartz particles can give rise to fibrosis of the lung (commonly referred to as silicosis)

**ECOLOGICAL INFORMATION** - No data available at this time.

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## DISPOSAL CONSIDERATIONS

Discarded product and hardened mortar are non-hazardous wastes. Small amounts can be disposed of as common waste. Special arrangements may be required for large quantities.

## TRANSPORT INFORMATION

UN NUMBER

ICAO - AIR

IMO - SEA

ADR - ROAD

PROPER SHIPPING NAME

## ADDITIONAL DATA

This product is not classified as dangerous for transport purposes.

## REGULATORY INFORMATION

Labeling:

According to EC Labeling directives, this product is labeled

Xi	-	Irritant
R38	-	Irritating to the skin.
R41	-	Risk of serious damage to the eyes.
S2	-	Keep out of reach of children
S22	-	Do not breathe dust
S26	-	In case of contact with eyes, rinse immediately with plenty of water And seek medical advice.
S28	-	In case of contact with skin, wash immediately with plenty of water.

## WORKER EXPOSURE LIMITS

No EH40 occupational exposure limits have been set for this product. However, we suggest that the following standards for individual components are observed.

Long term exposure

Limit (8 hours TWA reference period)\*

Portland Cement

Total Inhaled Dust	10mg/cubic meter
Respirable Dust	5mg/cubic meter

Quartz

Total Inhalable Dust	0.3mg/cubic meter
Respirable Dust	0.1mg/cubic meter

\*Health and safety Executive EH40/93 - Occupational Exposure Limits 1993

## GENERAL INFORMATION

Some colors contain titanium dioxide. The IARC has concluded "there is inadequate evidence in humans for the carcinogenicity of titanium dioxide". Based on rat inhalation studies the IARC's concluded that "there is sufficient evidence in experimental animals for the carcinogenicity of titanium dioxide". The IARC's overall evaluation was that "titanium dioxide is possibly carcinogenic to humans (Group 2B)".

## FURTHER INFORMATION

Adseal - Raikes Clough Industrial Estate, Raikes Lane, Bolton BL3 1RP

Telephone (01204 523973)

## NOTE

The purpose of the above information is to describe the products only in terms of health and safety requirements. The information should not, therefore, be construed as guaranteeing specific properties or as a specification. Customers should satisfy themselves as to the suitability and completeness of such information for their own particular use.