

# PLASTARD 18 PJ

## Retarding Plasticizer



PLASTARD 18 PJ is an integral retarder increases the work ability of concrete and retards its initial setting time starting from few hours to some days, this depending on the dosage used. The dosage rate/retardation can be exactly matched depending on particular need.

### Uses

PLASTARD 18 PJ is specially advised for following applications:

- Wherever it is desired to schedule the work ability and setting time, in function of specific and particular operative conditions.
- Based on particulars polysaccharides in water solution.
- In hot and dry areas, with high temperatures of all the ingredients, and with long transportation periods of the concrete.
- In cases of continuing casting to decrease the number of joints.
- In case of high volume concrete applications where the structural continuity and a reduction in the temperature of the concrete is necessary.
- In combination with the superplasticizers of the Tecnos and Tecnos Azur ranges.

### Benefits

- Retardation of 1 to 48 hours without affecting the final quality of the concrete.
- Increment of mechanical strengths up to 20%.
- Better waterproofing, durability, adhesion to the metal reinforcement, and better chemical resistance.
- Excellent performances in hot and dry climates.
- Does not introduce additional air into the concrete.

### Standard Compliance

PLASTARD 18 PJ conforms to the requirements of IS 9103-99 and ASTM C-494 Type D.

### Properties

Appearance	Clear Yellow Liquid
Specific Gravity	1.14-1.16
pH	7-8

### Instructions for Use

PLASTARD 18 PJ is a liquid, which is supplied ready for use, and can be added together with the water when the mixing of concrete is started.

### Dosage

100-600 gms PLASTARD 18 PJ for 100 kg cement, depending on the particular conditions of use and of the expected performances. Higher dosages to be used in case of programmed longer setting time.

### Effects of Over Dosage

Over-dosage of the product can lead to a more fluid mix, more entrained air, and consequently a serious reduction in mechanical performance, combined with extreme long hardening time. In serious cases, the demoulding of the concrete can become problematic.

### Compatibility with Admixtures

PLASTARD 18 PJ is compatible with the additives of Tecnos, Tecnos azur and XARLON ranges, and other Thermax admixtures.

### Dosage

Field trials should be conducted to determine the optimum addition rates to PLASTARD 10. As a guide to these trials, a dosage range of 300 to 800 gm per 100 kg of cement is recommended as a starting point. Because of variations in the concrete materials, job site conditions, and or applications, dosages outside of recommended range may be required. In such cases, contact your local Thermax representative.

### Rate of Hardening

The temperature of the concrete mix and the ambient temperature (forms, earth, reinforcement, air, etc.) affect the hardening rate of concrete. At higher temperatures, concrete hardens more rapidly which may cause problems with placing and finishing.

### Health and Safety Instructions

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use.

# PLASTARD 18 PJ

Do not reuse containers for storage of consumable item.

For further information refer to the material safety data sheet. MSDS available on demand.

## Storage

### *Shelf Life*

If kept between 5°C and 35°C, the product can be stored for at least 1 year in its original packaging. The product stays liquid at temperatures above 0°C.

Store under cover, out of direct sunlight and protect from extremes of temperature.

For specific storage advice consult your local Thermax representative.

## Packing

PLASTARD 18 PJ is available in 5, 20ltr & 250kg barrel.

## Other Segments:

- Concrete Admixtures • Surface Treatments • Grouts & Anchors • Repair & Rehabilitation
- Protective Coatings • Industrial Flooring • Waterproofing • Sealants • Adhesives

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