

# CONCRETE SPACER



## DATASHEET





## شركة نبراس المعدن للصناعة NIPRAS METAL INDUSTRY Co.

# Introduction

### NIPRAS METAL GROUP (NMG)

- Established in the year 2010 with high quality Manufacturing & Trading expertise with 3 companies under the umbrella -

1. NIPRAS METAL INDUSTRY COMPANY (NMIC)
2. NIPRAS METAL TRADING COMPANY (NMTC)
3. NIPRAS METAL CONTRACTING Est. (NMCE)

We are a Saudi based company with our team in major cities across the kingdom with our headquarters in RIYADH providing the best & professional solutions in construction & architectural industry. Intuitive creativity, precise technical assistance and reputed interest in our client marked us as one of the leading Industries throughout the KINGDOM and other GCC countries.

We have a plan to build the successful businesses for today's economy. We aim at manufacturing our products to not only have a beautiful appearance, but also that the customers perceive something of great intrinsic value when they touch it. We constantly strive to create future products that will stimulate the customer's senses to bring about joy and excitement each time the product is used.

Our success will be validated when the end users use the product and "their heart leaps for joy" and "they are deeply moved". We will create a future without limits through valued manufacturing. We will be responsible for planning, development, and manufacturing and be considered as the only manufacturer of its kind. We have earned great respect as a manufacturer and trader by serving the best to our valued customers.

## 1. Accountability

We accept responsibility for our work products and services. Upholding the highest standards evaluating for measuring our results against stated performance for our work with relevance, credibility and timelessness.

## 2. Teamwork

Our success depends on working together and fostering an inclusive and mutually supportive environment.

Our work-friendly for environment encourages collaboration, innovation, flexibility and figure the integration of resources.



## Our Strength Factors

### 3. Communication

We clarify expectations up front and communicate openly, honestly and accurately. We look for ways to improve our ways and for our work products by seeking giving and use both praise and constructive feedback.

### 4. Respect

We promote diversity and equal opportunity throughout other organizations. We value and respect the views of our clients.





# CONCRETE SPACER

Getting the right amount of concrete cover is essential for the durability of reinforced concrete structures. Concrete Spacer has been developed to prevent corrosive agents from reaching the reinforcement steel through cracks and pervious concrete, when concrete structures are exposed to a wide range of conditions such as soil, seawater, stored chemicals or the atmosphere. This cover is also necessary to protect the reinforcement steel against a rapid rise in temperature and subsequent loss of strength during a fire

The NMTC Concrete Spacer meets the demands for covering the reinforcement steel, as required by industrial standards. The thickness of the cover required depends on the severity of the exposure and the quality of the concrete



## Uses:

Concrete spacers are widely used in the construction of roads, tunnels, bridges, docks and buildings.

## Benefits:

- High Density with low porosity
- High load bearing capacity
- Same material properties as structural concrete
- Excellent bond with structural concrete, no hairline cracks





# TECHNICAL PROPERTIES

| TEST PARAMETERS                 | RESULTS                                 |
|---------------------------------|-----------------------------------------|
| Compressive Strength            | Not less than M60                       |
| Water Absorption                | Less than 5%                            |
| Rapid Chloride Penetration Test | Very low                                |
| Sulphat Content                 | Less than 0.5% by mass of cement        |
| Chloride Content                | Less than 0.3 kg/cubic meter            |
| Water Penetration               | Less than 10mm                          |
| Chloride Migration Coefficient  | Less than $3.5 \times 10^{-12}$ sqm/sec |
| Alkali Silica Reactivity        | Harmless                                |
| Salt Content                    | Less than 0.01%                         |
| Size Available                  | 25 mm, 30mm, 40mm, 50mm, 75mm, 100mm    |



**NMG NIPRAS**  
METAL GROUP

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