YNC 11

HI-TECH HEAT REFLECTIVE, WEATHERSHIELD ELASTOMERIC COATING

DESCRIPTION

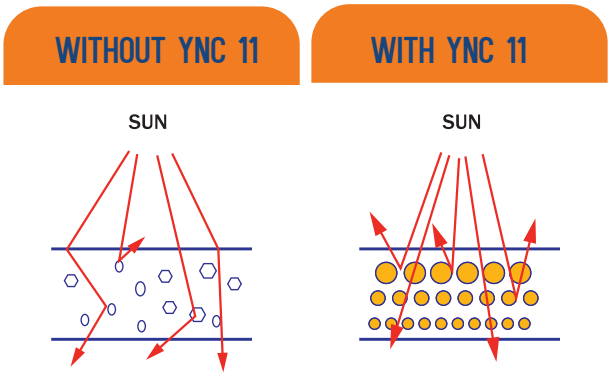
YNC 11 reduces the heat transfer through most materials. It is particularly useful on metal structures where heat build-up is most severe. **YNC 11** can be used on home roofing, pagodas, garden sheds, / car porches, cold storage buildings, silos, RC roofs and other industrial and commercial complexes. It is mostly suitable for when heat insulation is needed. When used in conjunction with existing internal insulation and/or air-conditioning, **YNC 11** will increase their effectiveness and reduce operating costs tremendously.

HEAT REFLECTIVE SYSTEM

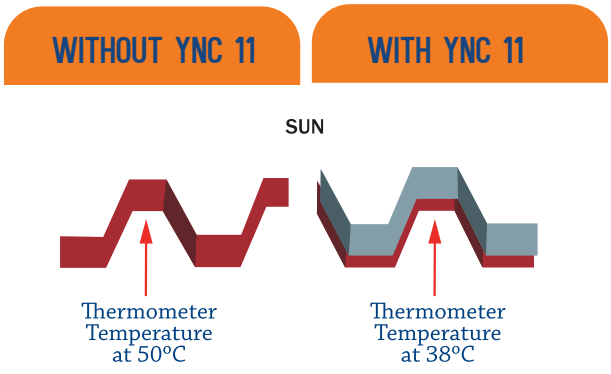
Generally, brighter colours are a good heat reflector. However, it may not be able to satisfy many requirements on a design perspective in the building and construction industry. Chemind has a set of standard colours for **YNC 11** available upon request. **YNC 11** utilizes a combination of IR (infrared reflective) pigments to minimize heat transfer from the sun and could increase durability of the coating. This will allow a long-lasting effect with IR properties allowing buildings to remain cooler under the sun.

ADVANTAGES

- Easy to apply and mix.
- Great adhesion to porous or non-porous substrates.
- UV resistant, excellent weather durability and high insulation properties.
- Non-toxic properties, environmentally friendly.
- High elongation and durability.
- Longer potential life-cycle due to less polymer degradation and thermal expansion due to lower temperature.



HEAT REFLECTIVE SYSTEM



TEMPERATURE TEST UNDER THE SUN WITH THERMOMETER FOR METAL ROOF

TYPE

WATER PROOFING

ADVANTAGES

UV RESISTANT

HIGH ELONGATION

NON TOXIC

COMPONENT

1 PART

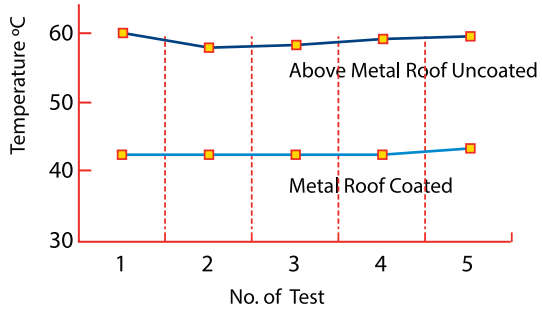
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TECHNICAL & PHYSICAL PROPERTIES

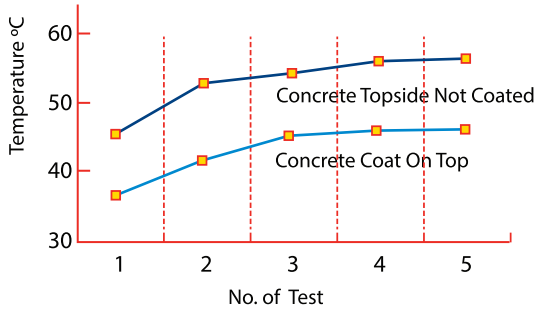
DESCRIPTION	TEST METHOD	RESULT
Specific Gravity		1.25
Elongation	ASTM D412	>60%
Tensile Strength	ASTM D412	>0.6 MPa
VOC Content	ASTM D3960	< 282 g/L
Total Solar Reflectance (TSR)	C1549 & E903-96	82.2
Thermal Conductivity	TUV PSB	0.13 W/m2K
Solar Heat Reflectance	ASTM E903:1996	99.3%
Soffit Temperature Difference	CHEMIND Laboratory	Reduce up to 10 -15 °C

YNC 11 TEMPERATURE TEST ON METAL ROOF (SOFFIT TEMPERATURE)



Metal Temperature Analysis Difference >12°C

YNC 11 TEMPERATURE TEST ON CONCRETE (SOFFIT TEMPERATURE)



Concrete Temperature Analysis Difference >8°C